

# Module and Register Handles for ION Meters

Updated: August 23, 2000

[Analog Input](#)  
[Analog Output](#)  
[And/Or](#)  
[Alert](#)  
[Arithmetic](#)  
[Bin](#)  
[Calibration Pulser](#)  
[Clock](#)  
[Communications](#)  
[Convert](#)  
[Counter](#)  
[Data Acquisition](#)  
[Data Recorder](#)  
[Diagnostics](#)  
[Digital Input](#)  
[Digital Output](#)  
[Display](#)  
[Display Options](#)  
[Disturbance Analyzer](#)  
[DNP Slave Export](#)  
[DNP Slave Import](#)  
[DNP Slave Options](#)

[Event Log Controller](#)  
[External Numeric](#)  
[External Boolean](#)  
[External Pulse](#)  
[Factory](#)  
[Feedback](#)  
[FFT](#)  
[Flicker](#)  
[Harmonics](#)  
[Harmonics Evaluation](#)  
[Harmonics Measurement](#)  
[Hi-Fi](#)  
[Integrator](#)  
[LonWorks Export](#)  
[LonWorks Import](#)  
[Mains Signaling Evaluation](#)  
[Maximum](#)  
[Minimum](#)  
[Modbus Slave](#)

[One-Shot Timer](#)  
[Periodic Timer](#)  
[Power Harmonic](#)  
[Power Meter](#)  
[Profibus](#)  
[Pulse Merge](#)  
[Pulser](#)  
[Relative Setpoint](#)  
[Sag/Swell](#)  
[Scheduler](#)  
[Scroll](#)  
[Setpoint](#)  
[Signal Limit Evaluation](#)  
[Sliding Window Demand](#)  
[Store](#)  
[Symmetrical Components](#)

[Thermal Demand](#)  
[Time-of-Use](#)  
[Transient](#)  
[Voltage Selection](#)  
[Waveform Recorder](#)



## Analog Input Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers		
		Scaled Analog (NVR)	Event (EVR)	Zero Scale (NBR)	Full Scale(NBR)	Port (ENR)
ANI #1	180	5850	1100	7006	7018	798D
ANI #2	0181	5851	1100	7007	7019	798E
ANI #3	0182	5852	1100	7008	701A	798F
ANI #4	0183	5853	1100	7009	701B	7990
ANI #5	0184	5854	1100	700A	701C	7991
ANI #6	0185	5855	1100	700B	701D	7992
ANI #7	0186	5856	1100	700C	701E	7993
ANI #8	0187	5857	1100	700D	701F	7994
ANI #9	0188	5858	1100	700E	7020	7995
ANI #10	0189	5859	1100	700F	7021	7996
ANI #11	018A	585A	1100	7010	7022	7997
ANI #12	018B	585B	1100	7011	7023	7998
ANI #13	018C	585C	1100	7012	7024	7999
ANI #14	018D	585D	1100	7013	7025	799A
ANI #15	018E	585E	1100	7014	7026	799B
ANI #16	018F	585F	1100	7015	7027	799C
ANI #17	0190	5860	1100	7016	7028	799D
ANI #18	0191	5861	1100	7017	7029	799E

## Analog Output Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers			
		State (NVR)	Event (EVR)	Zero Scale (NBR)	Full Scale(NBR)	Output Mode(ENR)	Port (ENR)
ANO #1	200	5862	1100	702A	7048	N/A	799F
ANO #2	0201	5863	1100	702B	7049	N/A	79A0
ANO #3	0202	5864	1100	702C	704A	N/A	79A1
ANO #4	0203	5865	1100	702D	704B	N/A	79A2
ANO #5	0204	5866	1100	702E	704C	N/A	79A3
ANO #6	0205	5867	1100	702F	704D	N/A	79A4
ANO #7	0206	5868	1100	7030	704E	N/A	79A5
ANO #8	0207	5869	1100	7031	704F	N/A	79A6
ANO #9	0208	586A	1100	7032	7050	N/A	79A7
ANO #10	0209	586B	1100	7033	7051	N/A	79A8
ANO #11	020A	586C	1100	7034	7052	N/A	79A9
ANO #12	020B	586D	1100	7035	7053	N/A	79AA
ANO #13	020C	586E	1100	7036	7054	N/A	79AB
ANO #14	020D	586F	1100	7037	7055	N/A	79AC
ANO #15	020E	5870	1100	7038	7056	N/A	79AD
ANO #16	020F	5871	1100	7039	7057	N/A	79AE
ANO #17	0210	5872	1100	703A	7058	N/A	79AF
ANO #18	0211	5873	1100	703B	7059	N/A	79B0
ANO #19	0212	5874	1100	703C	705A	N/A	79B1
ANO #20	0213	5875	1100	703D	705B	N/A	79B2
ANO #21	0214	5876	1100	703E	705C	N/A	79B3
ANO #22	0215	5877	1100	703F	705D	N/A	79B4
ANO #23	0216	5878	1100	7040	705E	N/A	79B5

## Analog Output Modules -- Handle Map

(all Handles in Hex)

		Output Registers		Setup Registers			
Module Name	Module Handle	State (NVR)	Event (EVR)	Zero Scale (NBR)	Full Scale(NBR)	Output Mode(ENR)	Port (ENR)
ANO #24	0217	5879	1100	7041	705F	N/A	79B6
ANO #25	0218	587A	1100	7042	7060	N/A	79B7
ANO #26	0219	587B	1100	7043	7061	N/A	79B8
ANO #27	021A	587C	1100	7044	7062	N/A	79B9
ANO #28	021B	587D	1100	7045	7063	N/A	79BA
ANO #29	021C	587E	1100	7046	7064	N/A	79BB
ANO #30	021D	587F	1100	7047	7065	N/A	79BC

## And/Or Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers	
		Result (BVR)	Trigger (DR)	Event (EVR)	Mode (ENR)	Event Log Mode (ENR)
ANDOR #1	0B00	6087	692E	1100	7976	797E
ANDOR #2	0B01	6088	692F	1100	7977	797F
ANDOR #3	0B02	6089	6930	1100	7978	7980
ANDOR #4	0B03	608A	6931	1100	7979	7981
ANDOR #5	0B04	608B	6932	1100	797A	7982
ANDOR #6	0B05	608C	6933	1100	797B	7983
ANDOR #7	0B06	608D	6934	1100	797C	7984
ANDOR #8	0B07	608E	6935	1100	797D	7985

**Expansion: Added on Feb 17/97**

ANDOR #9	0B08	618F	6A00	1100	7AF9	7B05
ANDOR #10	0B09	6190	6A01	1100	7AFA	7B06
ANDOR #11	0B0A	6191	6A02	1100	7AFB	7B07
ANDOR #12	0B0B	6192	6A03	1100	7AFC	7B08
ANDOR #13	0B0C	6193	6A04	1100	7AFD	7B09
ANDOR #14	0B0D	6194	6A05	1100	7AFE	7B0A
ANDOR #15	0B0E	6195	6A06	1100	7AFF	7B0B
ANDOR #16	0B0F	6196	6A07	1100	7B00	7B0C
ANDOR #17	0B10	6197	6A08	1100	7B01	7B0D
ANDOR #18	0B11	6198	6A09	1100	7B02	7B0E
ANDOR #19	0B12	6199	6A0A	1100	7B03	7B0F
ANDOR #20	0B13	619A	6A0B	1100	7B04	7B10

## And/Or Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers	
		Result (BVR)	Trigger (DR)	Event (EVR)	Mode (ENR)	Event Log Mode (ENR)

added 30 - May 99

ANDOR #21	0B14	6288	6E7E	1100	7CB7	7CD5
ANDOR #22	0B15	6289	6E7F	1100	7CB8	7CD6
ANDOR #23	0B16	628A	6E80	1100	7CB9	7CD7
ANDOR #24	0B17	628B	6E81	1100	7CBA	7CD8
ANDOR #25	0B18	628C	6E82	1100	7CBB	7CD9
ANDOR #26	0B19	628D	6E83	1100	7CBC	7CDA
ANDOR #27	0B1A	628E	6E84	1100	7CBD	7CDB
ANDOR #28	0B1B	628F	6E85	1100	7CBE	7CDC
ANDOR #29	0B1C	6290	6E86	1100	7CBF	7CDD
ANDOR #30	0B1D	6291	6E87	1100	7CC0	7CDE
ANDOR #31	0B1E	6292	6E88	1100	7CC1	7CDF
ANDOR #32	0B1F	6293	6E89	1100	7CC2	7CE0
ANDOR #33	0B20	6294	6E8A	1100	7CC3	7CE1
ANDOR #34	0B21	6295	6E8B	1100	7CC4	7CE2
ANDOR #35	0B22	6296	6E8C	1100	7CC5	7CE3
ANDOR #36	0B23	6297	6E8D	1100	7CC6	7CE4
ANDOR #37	0B24	6298	6E8E	1100	7CC7	7CE5
ANDOR #38	0B25	6299	6E8F	1100	7CC8	7CE6
ANDOR #39	0B26	629A	6E90	1100	7CC9	7CE7
ANDOR #40	0B27	629B	6E91	1100	7CCA	7CE8

## And/Or Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers	
		Result (BVR)	Trigger (DR)	Event (EVR)	Mode (ENR)	Event Log Mode (ENR)
ANDOR #41	0B28	629C	6E92	1100	7CCB	7CE9
ANDOR #42	0B29	629D	6E93	1100	7CCC	7CEA
ANDOR #43	0B2A	629E	6E94	1100	7CCD	7CEB
ANDOR #44	0B2B	629F	6E95	1100	7CCE	7CEC
ANDOR #45	0B2C	62A0	6E96	1100	7CCF	7CED
ANDOR #46	0B2D	62A1	6E97	1100	7CD0	7CEE
ANDOR #47	0B2E	62A2	6E98	1100	7CD1	7CEF
ANDOR #48	0B2F	62A3	6E99	1100	7CD2	7CF0
ANDOR #49	0B30	62A4	6E9A	1100	7CD3	7CF1
ANDOR #50	0B31	62A5	6E9B	1100	7CD4	7CF2



## Alert Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers						Setup Registers										
		Pending (BVR)	Sending (BVR)	Lockout (BVR)	Success (PR)	Fail (PR)	Event (EVR)	Priority (NBR)	Message (SR)	Location (SR)	Destination (SR)	Type (ENR)	ComPort (ENR)	ModemInit (SR)	Attempts (NBR)	AttemptTime (NBR)	LockoutTime (NBR)	PageNum (SR)
AL #1	1880	619B	61A5	61AF	6AF4	6AFE	1100	7346	134B	1355	135F	7B11	7B1B	1369	7350	735A	7364	1373
AL #2	1881	619C	61A6	61B0	6AF5	6AFF	1100	7347	134C	1356	1360	7B12	7B1C	136A	7351	735B	7365	1374
AL #3	1882	619D	61A7	61B1	6AF6	6B00	1100	7348	134D	1357	1361	7B13	7B1D	136B	7352	735C	7366	1375
AL #4	1883	619E	61A8	61B2	6AF7	6B01	1100	7349	134E	1358	1362	7B14	7B1E	136C	7353	735D	7367	1376
AL #5	1884	619F	61A9	61B3	6AF8	6B02	1100	734A	134F	1359	1363	7B15	7B1F	136D	7354	735E	7368	1377
AL #6	1885	61A0	61AA	61B4	6AF9	6B03	1100	734B	1350	135A	1364	7B16	7B20	136E	7355	735F	7369	1378
AL #7	1886	61A1	61AB	61B5	6AFA	6B04	1100	734C	1351	135B	1365	7B17	7B21	136F	7356	7360	736A	1379
AL #8	1887	61A2	61AC	61B6	6AFB	6B05	1100	734D	1352	135C	1366	7B18	7B22	1370	7357	7361	736B	137A
AL #9	1888	61A3	61AD	61B7	6AFC	6B06	1100	734E	1353	135D	1367	7B19	7B23	1371	7358	7362	736C	137B
AL #10	1889	61A4	61AE	61B8	6AFD	6B07	1100	734F	1354	135E	1368	7B1A	7B24	1372	7359	7363	736D	137C

## Arithmetic Modules -- Handle Map

(all Handles in Hex)

Module Name	Output Registers										Setup Registers							
	Module Handle	Calc #1 (NVR)	Calc #2 (NVR)	Calc #3 (NVR)	Calc #4 (NVR)	Calc #5 (NVR)	Calc #6 (NVR)	Calc #7 (NVR)	Calc #8 (NVR)	Event (EVR)	Formula #1 (SR)	Formula #2 (SR)	Formula #3 (SR)	Formula #4 (SR)	Formula #5 (SR)	Formula #6 (SR)	Formula #7 (SR)	Formula #8 (SR)
ARITH #1	1500	5B3C	5B44	5B4C	5B54	5B5C	5B64	5B6C	5B74	1100	1305	130D	1315	131D	1325	132D	1335	133D
ARITH #2	1501	5B3D	5B45	5B4D	5B55	5B5D	5B65	5B6D	5B75	1100	1306	130E	1316	131E	1326	132E	1336	133E
ARITH #3	1502	5B3E	5B46	5B4E	5B56	5B5E	5B66	5B6E	5B76	1100	1307	130F	1317	131F	1327	132F	1337	133F
ARITH #4	1503	5B3F	5B47	5B4F	5B57	5B5F	5B67	5B6F	5B77	1100	1308	1310	1318	1320	1328	1330	1338	1340
ARITH #5	1504	5B40	5B48	5B50	5B58	5B60	5B68	5B70	5B78	1100	1309	1311	1319	1321	1329	1331	1339	1341
ARITH #6	1505	5B41	5B49	5B51	5B59	5B61	5B69	5B71	5B79	1100	130A	1312	131A	1322	132A	1332	133A	1342
ARITH #7	1506	5B42	5B4A	5B52	5B5A	5B62	5B6A	5B72	5B7A	1100	130B	1313	131B	1323	132B	1333	133B	1343
ARITH #8	1507	5B43	5B4B	5B53	5B5B	5B63	5B6B	5B73	5B7B	1100	130C	1314	131C	1324	132C	1334	133C	1344
ARITH #9	1508	<b>488C</b>	4890	4894	4898	489C	48A0	48A4	48A8	1100	<b>5052</b>	5056	505A	505E	5062	5066	506A	506E
ARITH #10	1509	488D	4891	4895	4899	489D	48A1	48A5	48A9	1100	5053	5057	505B	505F	5063	5067	506B	506F
ARITH #11	150A	488E	4892	4896	489A	489E	48A2	48A6	48AA	1100	5054	5058	505C	5060	5064	5068	506C	5070
ARITH #12	150B	488F	4893	4897	489B	489F	48A3	48A7	48AB	1100	5055	5059	505D	5061	5065	5069	506D	5071
ARITH #13	150C	<b>4A72</b>	4A84	4A96	4AA8	4ABA	4ACC	4ADE	4AF0	1100	<b>519F</b>	51B1	51C3	51D5	51E7	51F9	520B	521D
ARITH #14	150D	4A73	4A85	4A97	4AA9	4ABB	4ACD	4ADF	4AF1	1100	51A0	51B2	51C4	51D6	51E8	51FA	520C	521E
ARITH #15	150E	4A74	4A86	4A98	4AAA	4ABC	4ACE	4AE0	4AF2	1100	51A1	51B3	51C5	51D7	51E9	51FB	520D	521F
ARITH #16	150F	4A75	4A87	4A99	4AAB	4ABD	4ACF	4AE1	4AF3	1100	51A2	51B4	51C6	51D8	51EA	51FC	520E	5220
ARITH #17	1510	4A76	4A88	4A9A	4AAC	4ABE	4AD0	4AE2	4AF4	1100	51A3	51B5	51C7	51D9	51EB	51FD	520F	5221
ARITH #18	1511	4A77	4A89	4A9B	4AAD	4ABF	4AD1	4AE3	4AF5	1100	51A4	51B6	51C8	51DA	51EC	51FE	5210	5222
ARITH #19	1512	4A78	4A8A	4A9C	4AAE	4AC0	4AD2	4AE4	4AF6	1100	51A5	51B7	51C9	51DB	51ED	51FF	5211	5223
ARITH #20	1513	4A79	4A8B	4A9D	4AAF	4AC1	4AD3	4AE5	4AF7	1100	51A6	51B8	51CA	51DC	51EE	5200	5212	5224
ARITH #21	1514	4A7A	4A8C	4A9E	4AB0	4AC2	4AD4	4AE6	4AF8	1100	51A7	51B9	51CB	51DD	51EF	5201	5213	5225
ARITH #22	1515	4A7B	4A8D	4A9F	4AB1	4AC3	4AD5	4AE7	4AF9	1100	51A8	51BA	51CC	51DE	51F0	5202	5214	5226
ARITH #23	1516	4A7C	4A8E	4AA0	4AB2	4AC4	4AD6	4AE8	4AFA	1100	51A9	51BB	51CD	51DF	51F1	5203	5215	5227

## Arithmetic Modules -- Handle Map

(all Handles in Hex)

Module Name	Output Registers										Setup Registers							
	Module Handle	Calc #1 (NVR)	Calc #2 (NVR)	Calc #3 (NVR)	Calc #4 (NVR)	Calc #5 (NVR)	Calc #6 (NVR)	Calc #7 (NVR)	Calc #8 (NVR)	Event (EVR)	Formula #1 (SR)	Formula #2 (SR)	Formula #3 (SR)	Formula #4 (SR)	Formula #5 (SR)	Formula #6 (SR)	Formula #7 (SR)	Formula #8 (SR)
ARITH #24	1517	4A7D	4A8F	4AA1	4AB3	4AC5	4AD7	4AE9	4AFB	1100	51AA	51BC	51CE	51E0	51F2	5204	5216	5228
ARITH #25	1518	4A7E	4A90	4AA2	4AB4	4AC6	4AD8	4AEA	4AFC	1100	51AB	51BD	51CF	51E1	51F3	5205	5217	5229
ARITH #26	1519	4A7F	4A91	4AA3	4AB5	4AC7	4AD9	4AEB	4AFD	1100	51AC	51BE	51D0	51E2	51F4	5206	5218	522A
ARITH #27	151A	4A80	4A92	4AA4	4AB6	4AC8	4ADA	4AEC	4AFE	1100	51AD	51BF	51D1	51E3	51F5	5207	5219	522B
ARITH #28	151B	4A81	4A93	4AA5	4AB7	4AC9	4ADB	4AED	4AFF	1100	51AE	51C0	51D2	51E4	51F6	5208	521A	522C
ARITH #29	151C	4A82	4A94	4AA6	4AB8	4ACA	4ADC	4AEE	4B00	1100	51AF	51C1	51D3	51E5	51F7	5209	521B	522D
ARITH #30	151D	4A83	4A95	4AA7	4AB9	4ACB	4ADD	4AEF	4B01	1100	51B0	51C2	51D4	51E6	51F8	520A	521C	522E
ARITH #31	151E	<b>4BFC</b>	4C24	4C4C	4C74	4C9C	4CC4	4CEC	4D14	1100	<b>5231</b>	5259	5281	52A9	52D1	52F9	5321	5349
ARITH #32	151F	4BFD	4C25	4C4D	4C75	4C9D	4CC5	4CED	4D15	1100	5232	525A	5282	52AA	52D2	52FA	5322	534A
ARITH #33	1520	4BFE	4C26	4C4E	4C76	4C9E	4CC6	4CEE	4D16	1100	5233	525B	5283	52AB	52D3	52FB	5323	534B
ARITH #34	1521	4BFF	4C27	4C4F	4C77	4C9F	4CC7	4CEF	4D17	1100	5234	525C	5284	52AC	52D4	52FC	5324	534C
ARITH #35	1522	4C00	4C28	4C50	4C78	4CA0	4CC8	4CF0	4D18	1100	5235	525D	5285	52AD	52D5	52FD	5325	534D
ARITH #36	1523	4C01	4C29	4C51	4C79	4CA1	4CC9	4CF1	4D19	1100	5236	525E	5286	52AE	52D6	52FE	5326	534E
ARITH #37	1524	4C02	4C2A	4C52	4C7A	4CA2	4CCA	4CF2	4D1A	1100	5237	525F	5287	52AF	52D7	52FF	5327	534F
ARITH #38	1525	4C03	4C2B	4C53	4C7B	4CA3	4CCB	4CF3	4D1B	1100	5238	5260	5288	52B0	52D8	5300	5328	5350
ARITH #39	1526	4C04	4C2C	4C54	4C7C	4CA4	4CCC	4CF4	4D1C	1100	5239	5261	5289	52B1	52D9	5301	5329	5351
ARITH #40	1527	4C05	4C2D	4C55	4C7D	4CA5	4CCD	4CF5	4D1D	1100	523A	5262	528A	52B2	52DA	5302	532A	5352
ARITH #41	1528	4C06	4C2E	4C56	4C7E	4CA6	4CCE	4CF6	4D1E	1100	523B	5263	528B	52B3	52DB	5303	532B	5353
ARITH #42	1529	4C07	4C2F	4C57	4C7F	4CA7	4CCF	4CF7	4D1F	1100	523C	5264	528C	52B4	52DC	5304	532C	5354
ARITH #43	152A	4C08	4C30	4C58	4C80	4CA8	4CD0	4CF8	4D20	1100	523D	5265	528D	52B5	52DD	5305	532D	5355
ARITH #44	152B	4C09	4C31	4C59	4C81	4CA9	4CD1	4CF9	4D21	1100	523E	5266	528E	52B6	52DE	5306	532E	5356
ARITH #45	152C	4C0A	4C32	4C5A	4C82	4CAA	4CD2	4CFA	4D22	1100	523F	5267	528F	52B7	52DF	5307	532F	5357
ARITH #46	152D	4C0B	4C33	4C5B	4C83	4CAB	4CD3	4CFB	4D23	1100	5240	5268	5290	52B8	52E0	5308	5330	5358
ARITH #47	152E	4C0C	4C34	4C5C	4C84	4CAC	4CD4	4CFC	4D24	1100	5241	5269	5291	52B9	52E1	5309	5331	5359

## Arithmetic Modules -- Handle Map

(all Handles in Hex)

Module Name	Output Registers										Setup Registers							
	Module Handle	Calc #1 (NVR)	Calc #2 (NVR)	Calc #3 (NVR)	Calc #4 (NVR)	Calc #5 (NVR)	Calc #6 (NVR)	Calc #7 (NVR)	Calc #8 (NVR)	Event (EVR)	Formula #1 (SR)	Formula #2 (SR)	Formula #3 (SR)	Formula #4 (SR)	Formula #5 (SR)	Formula #6 (SR)	Formula #7 (SR)	Formula #8 (SR)
ARITH #48	152F	4C0D	4C35	4C5D	4C85	4CAD	4CD5	4CFD	4D25	1100	5242	526A	5292	52BA	52E2	530A	5332	535A
ARITH #49	1530	4C0E	4C36	4C5E	4C86	4CAE	4CD6	4CFE	4D26	1100	5243	526B	5293	52BB	52E3	530B	5333	535B
ARITH #50	1531	4C0F	4C37	4C5F	4C87	4CAF	4CD7	4CFF	4D27	1100	5244	526C	5294	52BC	52E4	530C	5334	535C
ARITH #51	1532	4C10	4C38	4C60	4C88	4CB0	4CD8	4D00	4D28	1100	5245	526D	5295	52BD	52E5	530D	5335	535D
ARITH #52	1533	4C11	4C39	4C61	4C89	4CB1	4CD9	4D01	4D29	1100	5246	526E	5296	52BE	52E6	530E	5336	535E
ARITH #53	1534	4C12	4C3A	4C62	4C8A	4CB2	4CDA	4D02	4D2A	1100	5247	526F	5297	52BF	52E7	530F	5337	535F
ARITH #54	1535	4C13	4C3B	4C63	4C8B	4CB3	4CDB	4D03	4D2B	1100	5248	5270	5298	52C0	52E8	5310	5338	5360
ARITH #55	1536	4C14	4C3C	4C64	4C8C	4CB4	4CDC	4D04	4D2C	1100	5249	5271	5299	52C1	52E9	5311	5339	5361
ARITH #56	1537	4C15	4C3D	4C65	4C8D	4CB5	4CDD	4D05	4D2D	1100	524A	5272	529A	52C2	52EA	5312	533A	5362
ARITH #57	1538	4C16	4C3E	4C66	4C8E	4CB6	4CDE	4D06	4D2E	1100	524B	5273	529B	52C3	52EB	5313	533B	5363
ARITH #58	1539	4C17	4C3F	4C67	4C8F	4CB7	4CDF	4D07	4D2F	1100	524C	5274	529C	52C4	52EC	5314	533C	5364
ARITH #59	153A	4C18	4C40	4C68	4C90	4CB8	4CE0	4D08	4D30	1100	524D	5275	529D	52C5	52ED	5315	533D	5365
ARITH #60	153B	4C19	4C41	4C69	4C91	4CB9	4CE1	4D09	4D31	1100	524E	5276	529E	52C6	52EE	5316	533E	5366
ARITH #61	153C	4C1A	4C42	4C6A	4C92	4CBA	4CE2	4D0A	4D32	1100	524F	5277	529F	52C7	52EF	5317	533F	5367
ARITH #62	153D	4C1B	4C43	4C6B	4C93	4CBB	4CE3	4D0B	4D33	1100	5250	5278	52A0	52C8	52F0	5318	5340	5368
ARITH #63	153E	4C1C	4C44	4C6C	4C94	4CBC	4CE4	4D0C	4D34	1100	5251	5279	52A1	52C9	52F1	5319	5341	5369
ARITH #64	153F	4C1D	4C45	4C6D	4C95	4CBD	4CE5	4D0D	4D35	1100	5252	527A	52A2	52CA	52F2	531A	5342	536A
ARITH #65	1540	4C1E	4C46	4C6E	4C96	4CBE	4CE6	4D0E	4D36	1100	5253	527B	52A3	52CB	52F3	531B	5343	536B
ARITH #66	1541	4C1F	4C47	4C6F	4C97	4CBF	4CE7	4D0F	4D37	1100	5254	527C	52A4	52CC	52F4	531C	5344	536C
ARITH #67	1542	4C20	4C48	4C70	4C98	4CC0	4CE8	4D10	4D38	1100	5255	527D	52A5	52CD	52F5	531D	5345	536D
ARITH #68	1543	4C21	4C49	4C71	4C99	4CC1	4CE9	4D11	4D39	1100	5256	527E	52A6	52CE	52F6	531E	5346	536E
ARITH #69	1544	4C22	4C4A	4C72	4C9A	4CC2	4CEA	4D12	4D3A	1100	5257	527F	52A7	52CF	52F7	531F	5347	536F
ARITH #70	1545	4C23	4C4B	4C73	4C9B	4CC3	4CEB	4D13	4D3B	1100	5258	5280	52A8	52D0	52F8	5320	5348	5370

## Bin Modules -- Handle Map

(all Handles in Hex)

		Output Registers																		
Module Name	Module Handle	Bin 1 (NVR)	Bin 2 (NVR)	Bin 3 (NVR)	Bin 4 (NVR)	Bin 5 (NVR)	Bin 6 (NVR)	Bin 7 (NVR)	Bin 8 (NVR)	Bin 9 (NVR)	Bin 10 (NVR)	Bin 11 (NVR)	Bin 12 (NVR)	Bin 13 (NVR)	Bin 14 (NVR)	Bin 15 (NVR)	Bin 16 (NVR)	Bin 17 (NVR)	Bin 18 (NVR)	Bin 19 (NVR)
Bin #1	2000	4D4C	4D5B	4D6A	4D79	4D88	4D97	4DA6	4DB5	4DC4	4DD3	4DE2	4DF1	4E00	4E0F	4E1E	4E2D	4E3C	4E4B	4E5A
Bin #2	2001	4D4D	4D5C	4D6B	4D7A	4D89	4D98	4DA7	4DB6	4DC5	4DD4	4DE3	4DF2	4E01	4E10	4E1F	4E2E	4E3D	4E4C	4E5B
Bin #3	2002	4D4E	4D5D	4D6C	4D7B	4D8A	4D99	4DA8	4DB7	4DC6	4DD5	4DE4	4DF3	4E02	4E11	4E20	4E2F	4E3E	4E4D	4E5C
Bin #4	2003	4D4F	4D5E	4D6D	4D7C	4D8B	4D9A	4DA9	4DB8	4DC7	4DD6	4DE5	4DF4	4E03	4E12	4E21	4E30	4E3F	4E4E	4E5D
Bin #5	2004	4D50	4D5F	4D6E	4D7D	4D8C	4D9B	4DAA	4DB9	4DC8	4DD7	4DE6	4DF5	4E04	4E13	4E22	4E31	4E40	4E4F	4E5E
Bin #6	2005	4D51	4D60	4D6F	4D7E	4D8D	4D9C	4DAB	4DBA	4DC9	4DD8	4DE7	4DF6	4E05	4E14	4E23	4E32	4E41	4E50	4E5F
Bin #7	2006	4D52	4D61	4D70	4D7F	4D8E	4D9D	4DAC	4DBB	4DCA	4DD9	4DE8	4DF7	4E06	4E15	4E24	4E33	4E42	4E51	4E60
Bin #8	2007	4D53	4D62	4D71	4D80	4D8F	4D9E	4DAD	4DBC	4DCB	4DDA	4DE9	4DF8	4E07	4E16	4E25	4E34	4E43	4E52	4E61
Bin #9	2008	4D54	4D63	4D72	4D81	4D90	4D9F	4DAE	4DBD	4DCC	4DDB	4DEA	4DF9	4E08	4E17	4E26	4E35	4E44	4E53	4E62
Bin #10	2009	4D55	4D64	4D73	4D82	4D91	4DA0	4DAF	4DBE	4DCD	4DDC	4DEB	4DFA	4E09	4E18	4E27	4E36	4E45	4E54	4E63
Bin #11	200A	4D56	4D65	4D74	4D83	4D92	4DA1	4DB0	4DBF	4DCE	4DDD	4DEC	4DFB	4E0A	4E19	4E28	4E37	4E46	4E55	4E64
Bin #12	200B	4D57	4D66	4D75	4D84	4D93	4DA2	4DB1	4DC0	4DCF	4DDE	4DED	4DFC	4E0B	4E1A	4E29	4E38	4E47	4E56	4E65
Bin #13	200C	4D58	4D67	4D76	4D85	4D94	4DA3	4DB2	4DC1	4DD0	4DDF	4DEE	4DFD	4E0C	4E1B	4E2A	4E39	4E48	4E57	4E66
Bin #14	200D	4D59	4D68	4D77	4D86	4D95	4DA4	4DB3	4DC2	4DD1	4DE0	4DEF	4DFE	4E0D	4E1C	4E2B	4E3A	4E49	4E58	4E67
Bin #15	200E	4D5A	4D69	4D78	4D87	4D96	4DA5	4DB4	4DC3	4DD2	4DE1	4DF0	4DFF	4E0E	4E1D	4E2C	4E3B	4E4A	4E59	4E68

## Bin Modules -- Handle Map

(all Handles in Hex)

		Output Registers						Setup Registers													
Module Name	Module Handle	Bin 20 (NVR)	Bin 21 (NVR)	Bin 22 (NVR)	Bin 23 (NVR)	Bin 24 (NVR)	Bin 25 (NVR)	Event Priority (NBR)	Eval Mode A (ENR)	Eval Mode B (ENR)	Rule 1 (SR)	Rule 2 (SR)	Rule 3 (SR)	Rule 4 (SR)	Rule 5 (SR)	Rule 6 (SR)	Rule 7 (SR)	Rule 8 (SR)	Rule 9 (SR)	Rule 10 (SR)	
Bin #1	2000	4E69	4E78	4E87	4E96	4EA5	4EB4	40A4	7DB7	7DC6	5371	5380	538F	539E	53AD	53BC	53CB	53DA	53E9	53F8	
Bin #2	2001	4E6A	4E79	4E88	4E97	4EA6	4EB5	40A5	7DB8	7DC7	5372	5381	5390	539F	53AE	53BD	53CC	53DB	53EA	53F9	
Bin #3	2002	4E6B	4E7A	4E89	4E98	4EA7	4EB6	40A6	7DB9	7DC8	5373	5382	5391	53A0	53AF	53BE	53CD	53DC	53EB	53FA	
Bin #4	2003	4E6C	4E7B	4E8A	4E99	4EA8	4EB7	40A7	7DBA	7DC9	5374	5383	5392	53A1	53B0	53BF	53CE	53DD	53EC	53FB	
Bin #5	2004	4E6D	4E7C	4E8B	4E9A	4EA9	4EB8	40A8	7DBB	7DCA	5375	5384	5393	53A2	53B1	53C0	53CF	53DE	53ED	53FC	
Bin #6	2005	4E6E	4E7D	4E8C	4E9B	4EAA	4EB9	40A9	7DBC	7DCB	5376	5385	5394	53A3	53B2	53C1	53D0	53DF	53EE	53FD	
Bin #7	2006	4E6F	4E7E	4E8D	4E9C	4EAB	4EBA	40AA	7DBD	7DCC	5377	5386	5395	53A4	53B3	53C2	53D1	53E0	53EF	53FE	
Bin #8	2007	4E70	4E7F	4E8E	4E9D	4EAC	4EBB	40AB	7DBE	7DCD	5378	5387	5396	53A5	53B4	53C3	53D2	53E1	53F0	53FF	
Bin #9	2008	4E71	4E80	4E8F	4E9E	4EAD	4EBC	40AC	7DBF	7DCE	5379	5388	5397	53A6	53B5	53C4	53D3	53E2	53F1	5400	
Bin #10	2009	4E72	4E81	4E90	4E9F	4EAE	4EBD	40AD	7DC0	7DCF	537A	5389	5398	53A7	53B6	53C5	53D4	53E3	53F2	5401	
Bin #11	200A	4E73	4E82	4E91	4EA0	4EAF	4EBE	40AE	7DC1	7DD0	537B	538A	5399	53A8	53B7	53C6	53D5	53E4	53F3	5402	
Bin #12	200B	4E74	4E83	4E92	4EA1	4EB0	4EBF	40AF	7DC2	7DD1	537C	538B	539A	53A9	53B8	53C7	53D6	53E5	53F4	5403	
Bin #13	200C	4E75	4E84	4E93	4EA2	4EB1	4EC0	40B0	7DC3	7DD2	537D	538C	539B	53AA	53B9	53C8	53D7	53E6	53F5	5404	
Bin #14	200D	4E76	4E85	4E94	4EA3	4EB2	4EC1	40B1	7DC4	7DD3	537E	538D	539C	53AB	53BA	53C9	53D8	53E7	53F6	5405	
Bin #15	200E	4E77	4E86	4E95	4EA4	4EB3	4EC2	40B2	7DC5	7DD4	537F	538E	539D	53AC	53BB	53CA	53D9	53E8	53F7	5406	

## Bin Modules -- Handle Map

(all Handles in Hex)

		Setup Registers														
Module Name	Module Handle	Rule 11 (SR)	Rule 12 (SR)	Rule 13 (SR)	Rule 14 (SR)	Rule 15 (SR)	Rule 16 (SR)	Rule 17 (SR)	Rule 18 (SR)	Rule 19 (SR)	Rule 20 (SR)	Rule 21 (SR)	Rule 22 (SR)	Rule 23 (SR)	Rule 24 (SR)	Rule 25 (SR)
Bin #1	2000	5407	5416	5425	5434	5443	5452	5461	5470	547F	548E	549D	54AC	54BB	54CA	54D9
Bin #2	2001	5408	5417	5426	5435	5444	5453	5462	5471	5480	548F	549E	54AD	54BC	54CB	54DA
Bin #3	2002	5409	5418	5427	5436	5445	5454	5463	5472	5481	5490	549F	54AE	54BD	54CC	54DB
Bin #4	2003	540A	5419	5428	5437	5446	5455	5464	5473	5482	5491	54A0	54AF	54BE	54CD	54DC
Bin #5	2004	540B	541A	5429	5438	5447	5456	5465	5474	5483	5492	54A1	54B0	54BF	54CE	54DD
Bin #6	2005	540C	541B	542A	5439	5448	5457	5466	5475	5484	5493	54A2	54B1	54C0	54CF	54DE
Bin #7	2006	540D	541C	542B	543A	5449	5458	5467	5476	5485	5494	54A3	54B2	54C1	54D0	54DF
Bin #8	2007	540E	541D	542C	543B	544A	5459	5468	5477	5486	5495	54A4	54B3	54C2	54D1	54E0
Bin #9	2008	540F	541E	542D	543C	544B	545A	5469	5478	5487	5496	54A5	54B4	54C3	54D2	54E1
Bin #10	2009	5410	541F	542E	543D	544C	545B	546A	5479	5488	5497	54A6	54B5	54C4	54D3	54E2
Bin #11	200A	5411	5420	542F	543E	544D	545C	546B	547A	5489	5498	54A7	54B6	54C5	54D4	54E3
Bin #12	200B	5412	5421	5430	543F	544E	545D	546C	547B	548A	5499	54A8	54B7	54C6	54D5	54E4
Bin #13	200C	5413	5422	5431	5440	544F	545E	546D	547C	548B	549A	54A9	54B8	54C7	54D6	54E5
Bin #14	200D	5414	5423	5432	5441	5450	545F	546E	547D	548C	549B	54AA	54B9	54C8	54D7	54E6
Bin #15	200E	5415	5424	5433	5442	5451	5460	546F	547E	548D	549C	54AB	54BA	54C9	54D8	54E7

## Calibration Pulser Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers				
		Overload (BVR)	Event (EVR)	Pulse Width (NBR)	Kh (NBR)	Int Mode (ENR)	Output Mode (ENR)	Port (ENR)
CAP 1	1080	6274	1100	7773	777D	7E71	7E7B	7A0B
CAP 2	1081	6275	1100	7774	777E	7E72	7E7C	7A0C
CAP 3	1082	6276	1100	7775	777F	7E73	7E7D	7A0D
CAP 4	1083	6277	1100	7776	7780	7E74	7E7E	7A0E
CAP 5	1084	6278	1100	7777	7781	7E75	7E7F	7A0F
CAP 6	1085	6279	1100	7778	7782	7E76	7E80	7A10
CAP 7	1086	627A	1100	7779	7783	7E77	7E81	7A11
CAP 8	1087	627B	1100	777A	7784	7E78	7E82	7A12
CAP 9	1088	627C	1100	777B	7785	7E79	7E83	7A13
CAP 10	1089	627D	1100	777C	7786	7E7A	7E84	7A14



## Clock Module -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers				Setup Registers						
		Universal Time (NVR)	Local Time (NVR)	DST Flag (BVR)	Event Log (ELR)	TZ Offset (NBR)	DST Start (NBR)	DST End (NBR)	DST Offset (NBR)	TimeSyncSource (ENR)	TimeSyncType (ENR)	Clock Source (ENR)
CLK #1	1580	5B7C	5B7D	6113	1100	722E	722F	7230	7231	7BB7	7BB8	7C24

added 20 DST Start/End setup register pairs for 20yr Calendar support

DST Start 1	7703		DST End 1	7717
DST Start 2	7704		DST End 2	7718
DST Start 3	7705		DST End 3	7719
DST Start 4	7706		DST End 4	771A
DST Start 5	7707		DST End 5	771B
DST Start 6	7708		DST End 6	771C
DST Start 7	7709		DST End 7	771D
DST Start 8	770A		DST End 8	771E
DST Start 9	770B		DST End 9	771F
DST Start 10	770C		DST End 10	7720
DST Start 11	770D		DST End 11	7721
DST Start 12	770E		DST End 12	7722
DST Start 13	770F		DST End 13	7723
DST Start 14	7710		DST End 14	7724
DST Start 15	7711		DST End 15	7725
DST Start 16	7712		DST End 16	7726
DST Start 17	7713		DST End 17	7727

## Clock Module -- Handle Map

(all Handles in Hex)

Output Registers		Setup Registers			
DST Start 18	7714		DST End 18	7728	
DST Start 19	7715		DST End 19	7729	
DST Start 20	7716		DST End 20	772A	

## Communications Modules -- Handle Map

(all Handles in Hex)

**7700**

Module Name	Module Handle	Output Registers		Setup Registers							
		Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	CTS Level (ENR)	RTS Delay (NBR)	Unit ID (NBR)	Protocol (ENR)	Modem Init (STR)
Comm 1	0C00	1100	7986	7987	7988	7989	798A	71E8	71E9	7A4F	5050
MGT	0C01	1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comm 2	0C02	1100	N/A	7A4D	N/A	N/A	N/A	7232	7234	7A50	N/A
Comm 3	0C03	1100	N/A	7A4E	N/A	N/A	N/A	7233	7235	7A51	N/A

Module Name	Module Handle	Output Registers		Setup Registers							
		Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	CTS Level (ENR)	IP Address (SR)	SubNet Mask (SR)	Default Gateway (SR)	Protocol (ENR)
Ethernet	0C04	1100	N/A	N/A	N/A	N/A	N/A	1348	1349	134A	7A52

## Communications Modules -- Handle Map

(all Handles in Hex)

**7300**

		Output Registers	Setup Registers								
Module Name	Module Handle	Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	CTS Level (ENR)	RTS Delay (NBR)	Unit ID (NBR)	Protocol (ENR)	Modem Init (STR)
Comm 1	0C00	1100	7986	7987	7988	7989	798A	71E8	71E9	7A4F	5050
Front Panel	0C01	1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Infrared Comm	0C02	1100	N/A	7A4E	N/A	N/A	N/A	7233	7235	7A51	N/A
Profibus Comm	0C04	1100	N/A	N/A	N/A	N/A	N/A	N/A	7236	N/A	N/A

		Output Registers	Setup Registers								
Module Name	Module Handle	Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	IP Address (SR)	SubNet Mask (SR)	Default Gateway (SR)	Protocol (ENR)	Modem Init (STR)
Ethernet	0C03	1100	N/A	N/A	N/A	N/A	1348	1349	134A	N/A	N/A

## Communications Modules -- Handle Map

(all Handles in Hex)

**7330**

		Output Registers	Setup Registers								
Module Name	Module Handle	Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	CTS Level (ENR)	RTS Delay (NBR)	Unit ID (NBR)	Protocol (ENR)	Modem Init (STR)
Comm 1	0C00	1100	7986	7987	7988	7989	798A	71E8	71E9	7A4F	5050
Front Panel	0C01	1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Infrared Comm	0C02	1100	N/A	7A4E	N/A	N/A	N/A	7233	7235	7A51	N/A
Profibus Comm	0C04	1100	N/A	N/A	N/A	N/A	N/A	N/A	7236	N/A	N/A
Comm 2	0C05	1100	N/A	7A4D	N/A	N/A	N/A	7232	7234	7A50	N/A

		Output Registers	Setup Registers								
Module Name	Module Handle	Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	IP Address (SR)	SubNet Mask (SR)	Default Gateway (SR)	Protocol (ENR)	Modem Init (STR)
Ethernet	0C03	1100	N/A	N/A	N/A	N/A	1348	1349	134A	N/A	N/A

## Communications Modules -- Handle Map

(all Handles in Hex)

**8500**

		Output Registers	Setup Registers											
Module Name	Module Handle	Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	CTS Level (ENR)	RTS Delay (NBR)	Unit ID (NBR)	Protocol (ENR)	Modem Init (STR)	Answer Hours (STR)	Answer Hours Rings (NBR)	Non Answer Hours Rings (NBR)
Comm 1	0C00	1100	7986	7987	7988	7989	798A	71E8	71E9	7A4F	N/A	N/A	N/A	N/A
Front Panel	0C01	1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comm 2	0C02	1100	N/A	7A4D	N/A	N/A	N/A	7232	7234	7A50	5051	50AE	772B	772C
Comm 3	0C03	1100	N/A	7A4E	N/A	N/A	N/A	7233	7235	7A51	N/A	N/A	N/A	N/A
Comm 4	0C05	1100	N/A	7DB3	N/A	N/A	N/A	77E2	77E3	7DB4	N/A	N/A	N/A	N/A

		Output Registers	Setup Registers								
Module Name	Module Handle	Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	CTS Level (ENR)	IP Address (SR)	SubNet Mask (SR)	Default Gateway (SR)	Protocol (ENR)
Ethernet	0C04	1100	N/A	N/A	N/A	N/A	N/A	1348	1349	134A	N/A

## Communications Modules -- Handle Map

(all Handles in Hex)

**7500**

		Output Registers	Setup Registers											
Module Name	Module Handle	Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	CTS Level (ENR)	RTS Delay (NBR)	Unit ID (NBR)	Protocol (ENR)	Modem Init (STR)	Answer Hours (STR)	Answer Hours Rings (NBR)	Non Answer Hours Rings (NBR)
Comm 1	0C00	1100	7986	7987	7988	7989	798A	71E8	71E9	7A4F	N/A	N/A	N/A	N/A
Front Panel	0C01	1100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comm 2	0C02	1100	7D25	7A4E	N/A	N/A	N/A	7233	7235	7A51	N/A	N/A	N/A	N/A
Comm 3	0C03	1100	N/A	7A4D	N/A	N/A	N/A	7232	7234	7A50	522F	5230	77DF	77E0

		Output Registers	Setup Registers								
Module Name	Module Handle	Event (EVR)	Comm Mode (ENR)	BAUD Rate (ENR)	Handshake Mode (ENR)	RTS Level (ENR)	CTS Level (ENR)	IP Address (SR)	SubNet Mask (SR)	Default Gateway (SR)	Protocol (ENR)
Ethernet	0C04	1100	N/A	N/A	N/A	N/A	N/A	1348	1349	134A	N/A

## Convert Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers				
		NumOut (NVR)	BoolOut (BVR)	OnPulse (PR)	OffPulse (PR)	Event (EVR)
Convert #1	1900	5CBD	61B9	6A10	6A24	1100
Convert #2	1901	5CBE	61BA	6A11	6A25	1100
Convert #3	1902	5CBF	61BB	6A12	6A26	1100
Convert #4	1903	5CC0	61BC	6A13	6A27	1100
Convert #5	1904	5CC1	61BD	6A14	6A28	1100
Convert #6	1905	5CC2	61BE	6A15	6A29	1100
Convert #7	1906	5CC3	61BF	6A16	6A2A	1100
Convert #8	1907	5CC4	61C0	6A17	6A2B	1100
Convert #9	1908	5CC5	61C1	6A18	6A2C	1100
Convert #10	1909	5CC6	61C2	6A19	6A2D	1100
Convert #11	190A	5CC7	61C3	6A1A	6A2E	1100
Convert #12	190B	5CC8	61C4	6A1B	6A2F	1100
Convert #13	190C	5CC9	61C5	6A1C	6A30	1100
Convert #14	190D	5CCA	61C6	6A1D	6A31	1100
Convert #15	190E	5CCB	61C7	6A1E	6A32	1100
Convert #16	190F	5CCC	61C8	6A1F	6A33	1100
Convert #17	1910	5CCD	61C9	6A20	6A34	1100
Convert #18	1911	5CCE	61CA	6A21	6A35	1100
Convert #19	1912	5CCF	61CB	6A22	6A36	1100
Convert #20	1913	5CD0	61CC	6A23	6A37	1100



## Counter Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers			
		Count (NVR)	Rollover (PR)	Event (EVR)	Multiplier (NBR)	Up/Down (ENR)	Preset (NBR)	Roll Value (NBR)
CNT #1	0A80	5AD2	6A9E	1100	71DC	796C	7441	745F
CNT #2	0A81	5AD3	6A9F	1100	71DD	796D	7442	7460
CNT #3	0A82	5AD4	6AA0	1100	71DE	796E	7443	7461
CNT #4	0A83	5AD5	6AA1	1100	71DF	796F	7444	7462
CNT #5	0A84	5AD6	6AA2	1100	71E0	7970	7445	7463
CNT #6	0A85	5AD7	6AA3	1100	71E1	7971	7446	7464
CNT #7	0A86	5AD8	6AA4	1100	71E2	7972	7447	7465
CNT #8	0A87	5AD9	6AA5	1100	71E3	7973	7448	7466
CNT #9	0A88	5ADA	6AA6	1100	71E4	7974	7449	7467
CNT #10	0A89	5ADB	6AA7	1100	71E5	7975	744A	7468

**Expansion: Added on Feb 17/97**

CNT #11	0A8A	5C49	6AA8	1100	7330	7AE5	744B	7469
CNT #12	0A8B	5C4A	6AA9	1100	7331	7AE6	744C	746A
CNT #13	0A8C	5C4B	6AAA	1100	7332	7AE7	744D	746B
CNT #14	0A8D	5C4C	6AAB	1100	7333	7AE8	744E	746C
CNT #15	0A8E	5C4D	6AAC	1100	7334	7AE9	744F	746D
CNT #16	0A8F	5C4E	6AAD	1100	7335	7AEA	7450	746E
CNT #17	0A90	5C4F	6AAE	1100	7336	7AEB	7451	746F
CNT #18	0A91	5C50	6AAF	1100	7337	7AEC	7452	7470
CNT #19	0A92	5C51	6AB0	1100	7338	7AED	7453	7471
CNT #20	0A93	5C52	6AB1	1100	7339	7AEE	7454	7472

## Counter Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers			
		Count (NVR)	Rollover (PR)	Event (EVR)	Multiplier (NBR)	Up/Down (ENR)	Preset (NBR)	Roll Value (NBR)
CNT #21	0A94	5C53	6AB2	1100	733A	7AEF	7455	7473
CNT #22	0A95	5C54	6AB3	1100	733B	7AF0	7456	7474
CNT #23	0A96	5C55	6AB4	1100	733C	7AF1	7457	7475
CNT #24	0A97	5C56	6AB5	1100	733D	7AF2	7458	7476
CNT #25	0A98	5C57	6AB6	1100	733E	7AF3	7459	7477
CNT #26	0A99	5C58	6AB7	1100	733F	7AF4	745A	7478
CNT #27	0A9A	5C59	6AB8	1100	7340	7AF5	745B	7479
CNT #28	0A9B	5C5A	6AB9	1100	7341	7AF6	745C	747A
CNT #29	0A9C	5C5B	6ABA	1100	7342	7AF7	745D	747B
CNT #30	0A9D	5C5C	6ABB	1100	7343	7AF8	745E	747C

**Data Acquisition Module -- Handle Map**

(all Handles in Hex)

		Output Registers												
Module Name	Module Handle	V1 (NAR)	V2 (NAR)	V3 (NAR)	I1 (NAR)	I2 (NAR)	I3 (NAR)	I4 (NAR)	AUX1 (NAR)	AUX2 (NAR)	AUX3 (NAR)	AUX4 (NAR)	V4 (NAR)	I5 (NAR)
DA #1	0C80	0F07	0F08	0F09	0F0A	0F0B	0F0C	0F0D	0F0E	0F0F	0F10	0F11	0F12	0F13

## Data Recorder Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		Recorder Log (LR)	Log State (BVR)	Record Left (NVR)	Record Completed (PR)	Event (EVR)	Depth (NBR)	Recorder Mode (ENR)	Event Log Mode (ENR)
REC #1	800	0F80	60AF	5D7B	6A80	1100	719C	7918	N/A
REC #2	0801	0F81	60B0	5D7C	6A81	1100	719D	7919	N/A
REC #3	0802	0F82	60B1	5D7D	6A82	1100	719E	791A	N/A
REC #4	0803	0F83	60B2	5D7E	6A83	1100	719F	791B	N/A
REC #5	0804	0F84	60B3	5D7F	6A84	1100	71A0	791C	N/A
REC #6	0805	0F85	60B4	5D80	6A85	1100	71A1	791D	N/A
REC #7	0806	0F86	60B5	5D81	6A86	1100	71A2	791E	N/A
REC #8	0807	0F87	60B6	5D82	6A87	1100	71A3	791F	N/A
REC #9	0808	0F88	60B7	5D83	6A88	1100	71A4	7920	N/A
REC #10	0809	0F89	60B8	5D84	6A89	1100	71A5	7921	N/A
REC #11	080A	0F8A	60B9	5D85	6A8A	1100	71A6	7922	N/A
REC #12	080B	0F8B	60BA	5D86	6A8B	1100	71A7	7923	N/A
REC #13	080C	0F8C	60BB	5D87	6A8C	1100	71A8	7924	N/A
REC #14	080D	0F8D	60BC	5D88	6A8D	1100	71A9	7925	N/A
REC #15	080E	0F8E	60BD	5D89	6A8E	1100	71AA	7926	N/A
REC #16	080F	0F8F	60BE	5D8A	6A8F	1100	71AB	7927	N/A
REC #17	0810	0F90	60BF	5D8B	6A90	1100	71AC	7928	N/A
REC #18	0811	0F91	60C0	5D8C	6A91	1100	71AD	7929	N/A
REC #19	0812	0F92	60C1	5D8D	6A92	1100	71AE	792A	N/A
REC #20	0813	0F93	60C2	5D8E	6A93	1100	71AF	792B	N/A

## Data Recorder Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		Recorder Log (LR)	Log State (BVR)	Record Left (NVR)	Record Completed (PR)	Event (EVR)	Depth (NBR)	Recorder Mode (ENR)	Event Log Mode (ENR)

20 Data Recorders added - April 18, 2000

REC #21	0814	0FA2	6320	4F8C	6F66	1100	4171	7E1F	N/A
REC #22	0815	0FA3	6321	4F8D	6F67	1100	4172	7E20	N/A
REC #23	0816	0FA4	6322	4F8E	6F68	1100	4173	7E21	N/A
REC #24	0817	0FA5	6323	4F8F	6F69	1100	4174	7E22	N/A
REC #25	0818	0FA6	6324	4F90	6F6A	1100	4175	7E23	N/A
REC #26	0819	0FA7	6325	4F91	6F6B	1100	4176	7E24	N/A
REC #27	081A	0FA8	6326	4F92	6F6C	1100	4177	7E25	N/A
REC #28	081B	0FA9	6327	4F93	6F6D	1100	4178	7E26	N/A
REC #29	081C	0FAA	6328	4F94	6F6E	1100	4179	7E27	N/A
REC #30	081D	0FAB	6329	4F95	6F6F	1100	417A	7E28	N/A
REC #31	081E	0FAC	632A	4F96	6F70	1100	417B	7E29	N/A
REC #32	081F	0FAD	632B	4F97	6F71	1100	417C	7E2A	N/A
REC #33	0820	0FAE	632C	4F98	6F72	1100	417D	7E2B	N/A
REC #34	0821	0FAF	632D	4F99	6F73	1100	417E	7E2C	N/A
REC #35	0822	0FB0	632E	4F9A	6F74	1100	417F	7E2D	N/A
REC #36	0823	0FB1	632F	4F9B	6F75	1100	4180	7E2E	N/A
REC #37	0824	0FB2	6330	4F9C	6F76	1100	4181	7E2F	N/A
REC #38	0825	0FB3	6331	4F9D	6F77	1100	4182	7E30	N/A
REC #39	0826	0FB4	6332	4F9E	6F78	1100	4183	7E31	N/A
REC #40	0827	0FB5	6333	4F9F	6F79	1100	4184	7E32	N/A

## Data Recorder Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		Recorder Log (LR)	Log State (BVR)	Record Left (NVR)	Record Completed(PR)	Event (EVR)	Depth (NBR)	Recorder Mode (ENR)	Event Log Mode (ENR)

Expansion room for 10 more Data Recorders added - April 18, 2000

REC #41	0825	0FB6	6334	4FA0	6F7A	1100	4185	7E33	N/A
REC #42	0826	0FB7	6335	4FA1	6F7B	1100	4186	7E34	N/A
REC #43	0827	0FB8	6336	4FA2	6F7C	1100	4187	7E35	N/A
REC #44	0828	0FB9	6337	4FA3	6F7D	1100	4188	7E36	N/A
REC #45	0829	0FBA	6338	4FA4	6F7E	1100	4189	7E37	N/A
REC #46	082A	0FBB	6339	4FA5	6F7F	1100	418A	7E38	N/A
REC #47	082B	0FBC	633A	4FA6	6F80	1100	418B	7E39	N/A
REC #48	082C	0FBD	633B	4FA7	6F81	1100	418C	7E3A	N/A
REC #49	082D	0FBE	633C	4FA8	6F82	1100	418D	7E3B	N/A
REC #50	082E	0FBF	633D	4FA9	6F83	1100	418E	7E3C	N/A

## Diagnostics Module -- Handle Map

(all Handles in Hex)

Output Registers														
Module Name	Module Handle	Loop Error (NVR)	A/D Status (NVR)	Total Log Mem (NVR)	Free Log Mem (NVR)	FreeContLogMem(NVR)	Qcalc task used (NVR)	Calc task used (NVR)	1-sec task used (NVR)	Qcalc task interval(NVR)	Calc task interval (NVR)	OneSec task int (NVR)	Num Used Labels (NVR)	Proc Power Used (%) (NVR)
DIA #1	0D80	5AE4	5AE5	5AE6	5AE7	5AE8	5AE9	5AEA	5AEB	5AEC	5AED	5AEE	5AEF	5AF0

Output Registers														
Module Name	Module Handle	# Pwr Ups (NVR)	# Partial Fac Resets (NVR)	# Factory Resets (NVR)	# Calconst Failures (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	OneSec task int (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)
DIA #1	0D80	5C27	5C28	5C29	5C2A	5C2B	5C2C	5C2D	5C2E	5C2F	5C30	5C31	5C32	5C33

## Diagnostics Module -- Handle Map

(all Handles in Hex)

		Output Registers						
Module Name	Module Handle	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)	Future Diagnostic (NVR)
DIA #1	0D80	5C34	5C35	5C36	5C37	5C38	5C39	5C3A

		Output Registers									
Module Name	Module Handle	Boolean Diag Reg	Boolean Diag Reg	Boolean Diag Reg	Boolean Diag Reg	Boolean Diag Reg	Boolean Diag Reg	Boolean Diag Reg	Boolean Diag Reg	Boolean Diag Reg	Boolean Diag Reg
	0D80	61FF	6200	6201	6202	6203	6204	6205	6206	6207	6208



## Digital Input Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers				
		State (BVR)	Trigger (DR)	Event (EVR)	Input Mode (ENR)	Event Log Mode (ENR)	Input Polarity (ENR)	Debounce (NBR)	Port (ENR)
DI #1	280	6001	6800	1100	7806	782C	7852	7066	79DB
DI #2	0281	6002	6801	1100	7807	782D	7853	7067	79DC
DI #3	0282	6003	6802	1100	7808	782E	7854	7068	79DD
DI #4	0283	6004	6803	1100	7809	782F	7855	7069	79DE
DI #5	0284	6005	6804	1100	780A	7830	7856	706A	79DF
DI #6	0285	6006	6805	1100	780B	7831	7857	706B	79E0
DI #7	0286	6007	6806	1100	780C	7832	7858	706C	79E1
DI #8	0287	6008	6807	1100	780D	7833	7859	706D	79E2
DI #9	0288	6009	6808	1100	780E	7834	785A	706E	79E3
DI #10	0289	600A	6809	1100	780F	7835	785B	706F	79E4
DI #11	028A	600B	680A	1100	7810	7836	785C	7070	79E5
DI #12	028B	600C	680B	1100	7811	7837	785D	7071	79E6
DI #13	028C	600D	680C	1100	7812	7838	785E	7072	79E7
DI #14	028D	600E	680D	1100	7813	7839	785F	7073	79E8
DI #15	028E	600F	680E	1100	7814	783A	7860	7074	79E9
DI #16	028F	6010	680F	1100	7815	783B	7861	7075	79EA
DI #17	0290	6011	6810	1100	7816	783C	7862	7076	79EB
DI #18	0291	6012	6811	1100	7817	783D	7863	7077	79EC
DI #19	0292	6013	6812	1100	7818	783E	7864	7078	79ED
DI #20	0293	6014	6813	1100	7819	783F	7865	7079	79EE
DI #21	0294	6015	6814	1100	781A	7840	7866	707A	79EF
DI #22	0295	6016	6815	1100	781B	7841	7867	707B	79F0
DI #23	0296	6017	6816	1100	781C	7842	7868	707C	79F1

## Digital Input Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers				
		State (BVR)	Trigger (DR)	Event (EVR)	Input Mode (ENR)	Event Log Mode (ENR)	Input Polarity (ENR)	Debounce (NBR)	Port (ENR)
DI #24	0297	6018	6817	1100	781D	7843	7869	707D	79F2
DI #25	0298	6019	6818	1100	781E	7844	786A	707E	79F3
DI #26	0299	601A	6819	1100	781F	7845	786B	707F	79F4
DI #27	029A	601B	681A	1100	7820	7846	786C	7080	79F5
DI #28	029B	601C	681B	1100	7821	7847	786D	7081	79F6
DI #29	029C	601D	681C	1100	7822	7848	786E	7082	79F7
DI #30	029D	601E	681D	1100	7823	7849	786F	7083	79F8
DI #31	029E	601F	681E	1100	7824	784A	7870	7084	79F9
DI #32	029F	6020	681F	1100	7825	784B	7871	7085	79FA
DI #33	02A0	6021	6820	1100	7826	784C	7872	7086	79FB
DI #34	02A1	6022	6821	1100	7827	784D	7873	7087	79FC
DI #35	02A2	6023	6822	1100	7828	784E	7874	7088	79FD
DI #36	02A3	6024	6823	1100	7829	784F	7875	7089	79FE
DI #37	02A4	6025	6824	1100	782A	7850	7876	708A	79FF
DI #38	02A5	6026	6825	1100	782B	7851	7877	708B	7A00

## Digital Output Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers			
		State (BVR)	Mode (BVR)	Event (EVR)	Event Log Mode (ENR)	Output Polarity (ENR)	Pulse Width (NBR)	Port (ENR)
DO #1	300	6027	6045	1100	7878	7896	708C	79BD
DO #2	0301	6028	6046	1100	7879	7897	708D	79BE
DO #3	0302	6029	6047	1100	787A	7898	708E	79BF
DO #4	0303	602A	6048	1100	787B	7899	708F	79C0
DO #5	0304	602B	6049	1100	787C	789A	7090	79C1
DO #6	0305	602C	604A	1100	787D	789B	7091	79C2
DO #7	0306	602D	604B	1100	787E	789C	7092	79C3
DO #8	0307	602E	604C	1100	787F	789D	7093	79C4
DO #9	0308	602F	604D	1100	7880	789E	7094	79C5
DO #10	0309	6030	604E	1100	7881	789F	7095	79C6
DO #11	030A	6031	604F	1100	7882	78A0	7096	79C7
DO #12	030B	6032	6050	1100	7883	78A1	7097	79C8
DO #13	030C	6033	6051	1100	7884	78A2	7098	79C9
DO #14	030D	6034	6052	1100	7885	78A3	7099	79CA
DO #15	030E	6035	6053	1100	7886	78A4	709A	79CB
DO #16	030F	6036	6054	1100	7887	78A5	709B	79CC
DO #17	0310	6037	6055	1100	7888	78A6	709C	79CD
DO #18	0311	6038	6056	1100	7889	78A7	709D	79CE
DO #19	0312	6039	6057	1100	788A	78A8	709E	79CF
DO #20	0313	603A	6058	1100	788B	78A9	709F	79D0
DO #21	0314	603B	6059	1100	788C	78AA	70A0	79D1
DO #22	0315	603C	605A	1100	788D	78AB	70A1	79D2

## Digital Output Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers			
		State (BVR)	Mode (BVR)	Event (EVR)	Event Log Mode (ENR)	Output Polarity (ENR)	Pulse Width (NBR)	Port (ENR)
DO #23	0316	603D	605B	1100	788E	78AC	70A2	79D3
DO #24	0317	603E	605C	1100	788F	78AD	70A3	79D4
DO #25	0318	603F	605D	1100	7890	78AE	70A4	79D5
DO #26	0319	6040	605E	1100	7891	78AF	70A5	79D6
DO #27	031A	6041	605F	1100	7892	78B0	70A6	79D7
DO #28	031B	6042	6060	1100	7893	78B1	70A7	79D8
DO #29	031C	6043	6061	1100	7894	78B2	70A8	79D9
DO #30	031D	6044	6062	1100	7895	78B3	70A9	79DA

## Display Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Register	Setup Registers					
		Event (EVR)	Screen Type (ENR)	Softkey Number (ENR)	Softkey Name (SR)	Screen Title (SR)	Screen Resolution (ENR)	Status Bar Option (ENR)
DIS #1	1D00	1100	7BB9	7BE1	5000	5028	7D27	7D6D
DIS #2	1D01	1100	7BBA	7BE2	5001	5029	7D28	7D6E
DIS #3	1D02	1100	7BBB	7BE3	5002	502A	7D29	7D6F
DIS #4	1D03	1100	7BBC	7BE4	5003	502B	7D2A	7D70
DIS #5	1D04	1100	7BBD	7BE5	5004	502C	7D2B	7D71
DIS #6	1D05	1100	7BBE	7BE6	5005	502D	7D2C	7D72
DIS #7	1D06	1100	7BBF	7BE7	5006	502E	7D2D	7D73
DIS #8	1D07	1100	7BC0	7BE8	5007	502F	7D2E	7D74
DIS #9	1D08	1100	7BC1	7BE9	5008	5030	7D2F	7D75
DIS #10	1D09	1100	7BC2	7BEA	5009	5031	7D30	7D76
DIS #11	1D0A	1100	7BC3	7BEB	500A	5032	7D31	7D77
DIS #12	1D0B	1100	7BC4	7BEC	500B	5033	7D32	7D78
DIS #13	1D0C	1100	7BC5	7BED	500C	5034	7D33	7D79
DIS #14	1D0D	1100	7BC6	7BEE	500D	5035	7D34	7D7A
DIS #15	1D0E	1100	7BC7	7BEF	500E	5036	7D35	7D7B
DIS #16	1D0F	1100	7BC8	7BF0	500F	5037	7D36	7D7C
DIS #17	1D10	1100	7BC9	7BF1	5010	5038	7D37	7D7D
DIS #18	1D11	1100	7BCA	7BF2	5011	5039	7D38	7D7E
DIS #19	1D12	1100	7BCB	7BF3	5012	503A	7D39	7D7F
DIS #20	1D13	1100	7BCC	7BF4	5013	503B	7D3A	7D80
DIS #21	1D14	1100	7BCD	7BF5	5014	503C	7D3B	7D81

## Display Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Register	Setup Registers					
		Event (EVR)	Screen Type (ENR)	Softkey Number (ENR)	Softkey Name (SR)	Screen Title (SR)	Screen Resolution (ENR)	Status Bar Option (ENR)
DIS #22	1D15	1100	7BCE	7BF6	5015	503D	7D3C	7D82
DIS #23	1D16	1100	7BCF	7BF7	5016	503E	7D3D	7D83
DIS #24	1D17	1100	7BD0	7BF8	5017	503F	7D3E	7D84
DIS #25	1D18	1100	7BD1	7BF9	5018	5040	7D3F	7D85
DIS #26	1D19	1100	7BD2	7BFA	5019	5041	7D40	7D86
DIS #27	1D1A	1100	7BD3	7BFB	501A	5042	7D41	7D87
DIS #28	1D1B	1100	7BD4	7BFC	501B	5043	7D42	7D88
DIS #29	1D1C	1100	7BD5	7BFD	501C	5044	7D43	7D89
DIS #30	1D1D	1100	7BD6	7BFE	501D	5045	7D44	7D8A
DIS #31	1D1E	1100	7BD7	7BFF	501E	5046	7D45	7D8B
DIS #32	1D1F	1100	7BD8	7C00	501F	5047	7D46	7D8C
DIS #33	1D20	1100	7BD9	7C01	5020	5048	7D47	7D8D
DIS #34	1D21	1100	7BDA	7C02	5021	5049	7D48	7D8E
DIS #35	1D22	1100	7BDB	7C03	5022	504A	7D49	7D8F
DIS #36	1D23	1100	7BDC	7C04	5023	504B	7D4A	7D90
DIS #37	1D24	1100	7BDD	7C05	5024	504C	7D4B	7D91
DIS #38	1D25	1100	7BDE	7C06	5025	504D	7D4C	7D92
DIS #39	1D26	1100	7BDF	7C07	5026	504E	7D4D	7D93
DIS #40	1D27	1100	7BE0	7C08	5027	504F	7D4E	7D94

## Display Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Register	Setup Registers					
		Event (EVR)	Screen Type (ENR)	Softkey Number (ENR)	Softkey Name (SR)	Screen Title (SR)	Screen Resolution (ENR)	Status Bar Option (ENR)

added 30 - Feb 99

DIS #41	1D28	1100	7C6F	7C8D	5072	5090	7D4F	7D95
DIS #42	1D29	1100	7C70	7C8E	5073	5091	7D50	7D96
DIS #43	1D2A	1100	7C71	7C8F	5074	5092	7D51	7D97
DIS #44	1D2B	1100	7C72	7C90	5075	5093	7D52	7D98
DIS #45	1D2C	1100	7C73	7C91	5076	5094	7D53	7D99
DIS #46	1D2D	1100	7C74	7C92	5077	5095	7D54	7D9A
DIS #47	1D2E	1100	7C75	7C93	5078	5096	7D55	7D9B
DIS #48	1D2F	1100	7C76	7C94	5079	5097	7D56	7D9C
DIS #49	1D30	1100	7C77	7C95	507A	5098	7D57	7D9D
DIS #50	1D31	1100	7C78	7C96	507B	5099	7D58	7D9E
DIS #51	1D32	1100	7C79	7C97	507C	509A	7D59	7D9F
DIS #52	1D33	1100	7C7A	7C98	507D	509B	7D5A	7DA0
DIS #53	1D34	1100	7C7B	7C99	507E	509C	7D5B	7DA1
DIS #54	1D35	1100	7C7C	7C9A	507F	509D	7D5C	7DA2
DIS #55	1D36	1100	7C7D	7C9B	5080	509E	7D5D	7DA3
DIS #56	1D37	1100	7C7E	7C9C	5081	509F	7D5E	7DA4
DIS #57	1D38	1100	7C7F	7C9D	5082	50A0	7D5F	7DA5
DIS #58	1D39	1100	7C80	7C9E	5083	50A1	7D60	7DA6

## Display Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Register	Setup Registers					
		Event (EVR)	Screen Type (ENR)	Softkey Number (ENR)	Softkey Name (SR)	Screen Title (SR)	Screen Resolution (ENR)	Status Bar Option (ENR)
DIS #59	1D3A	1100	7C81	7C9F	5084	50A2	7D61	7DA7
DIS #60	1D3B	1100	7C82	7CA0	5085	50A3	7D62	7DA8
DIS #61	1D3C	1100	7C83	7CA1	5086	50A4	7D63	7DA9
DIS #62	1D3D	1100	7C84	7CA2	5087	50A5	7D64	7DAA
DIS #63	1D3E	1100	7C85	7CA3	5088	50A6	7D65	7DAB
DIS #64	1D3F	1100	7C86	7CA4	5089	50A7	7D66	7DAC
DIS #65	1D40	1100	7C87	7CA5	508A	50A8	7D67	7DAD
DIS #66	1D41	1100	7C88	7CA6	508B	50A9	7D68	7DAE
DIS #67	1D42	1100	7C89	7CA7	508C	50AA	7D69	7DAF
DIS #68	1D43	1100	7C8A	7CA8	508D	50AB	7D6A	7DB0
DIS #69	1D44	1100	7C8B	7CA9	508E	50AC	7D6B	7DB1
DIS #70	1D45	1100	7C8C	7CAA	508F	50AD	7D6C	7DB2



## Display Options Module -- Handle Map

(all Handles in Hex)

		Setup Registers																
Module Name	Module Handle	PF Symbol (ENR)	Digit Grouping (ENR)	Date Format (ENR)	DST Options (ENR)	Volts Resolution (ENR)	Current Resolution (ENR)	Power Resolution (ENR)	Contrast (ENR)	Backlight Timeout (NBR)	Display Update Time (ENR)	Demand Lockout Timeout (NBR)	Auto Scroll (ENR)	Display Mode (ENR)	Test Mode Timeout (NBR)	Display Scaling Factor (NBR)	Display Scaling Mode (ENR)	Front Panel Programming (ENR)
DOP #1	1D80	7C09	7C0A	7C0B	7C0C	7C0D	7C0E	7C0F	7C10	75A9	7C11	75CD	7C4D	7C4E	772D	77E1	7E85	7D26

## Disturbance Analyzer Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers															Setup Registers		
		Extreme 1 (NVR)	Extreme 2 (NVR)	Extreme 3 (NVR)	Duration 1 (NVR)	Duration 2 (NVR)	Duration 3 (NVR)	Limit Exceed 1 (BR)	Limit Exceed 2 (BR)	Limit Exceed 3 (BR)	Dist Start 1 (PR)	Dist Start 2 (PR)	Dist Start 3 (PR)	Dist End 1 (PR)	Dist End 2 (PR)	Dist End 3 (PR)	Limit (NBR)	Deadband (NBR)	Event Priority (NBR)
DAN #1	2180	4F33	4F39	4F3F	4F45	4F4B	4F51	630E	6314	631A	6F42	6F48	6F4E	6F54	6F5A	6F60	4123	4129	412F
DAN #2	2181	4F34	4F3A	4F40	4F46	4F4C	4F52	630F	6315	631B	6F43	6F49	6F4F	6F55	6F5B	6F61	4124	412A	4130
DAN #3	2182	4F35	4F3B	4F41	4F47	4F4D	4F53	6310	6316	631C	6F44	6F4A	6F50	6F56	6F5C	6F62	4125	412B	4131
DAN #4	2183	4F36	4F3C	4F42	4F48	4F4E	4F54	6311	6317	631D	6F45	6F4B	6F51	6F57	6F5D	6F63	4126	412C	4132
DAN #5	2184	4F37	4F3D	4F43	4F49	4F4F	4F55	6312	6318	631E	6F46	6F4C	6F52	6F58	6F5E	6F64	4127	412D	4133
DAN #6	2185	4F38	4F3E	4F44	4F4A	4F50	4F56	6313	6319	631F	6F47	6F4D	6F53	6F59	6F5F	6F65	4128	412E	4134

## DNP Slave Export Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Register	Setup Registers											
		Event (EVR)	BasePoint (NBR)	StaticObj (ENR)	EventObj (ENR)	DeadBand (NBR)	FrozStaObj (ENR)	FrozEvtObj (ENR)	EventClass (ENR)	Scaling (ENR)	IONZero (NBR)	IONFull (NBR)	DNPZero (NBR)	DNPFull (NBR)
DSE #1	1980	1100	737C	7B25	7B35	738C	7B45	7B55	7B65	7B75	739C	73AC	73BC	73CC
DSE #2	1981	1100	737D	7B26	7B36	738D	7B46	7B56	7B66	7B76	739D	73AD	73BD	73CD
DSE #3	1982	1100	737E	7B27	7B37	738E	7B47	7B57	7B67	7B77	739E	73AE	73BE	73CE
DSE #4	1983	1100	737F	7B28	7B38	738F	7B48	7B58	7B68	7B78	739F	73AF	73BF	73CF
DSE #5	1984	1100	7380	7B29	7B39	7390	7B49	7B59	7B69	7B79	73A0	73B0	73C0	73D0
DSE #6	1985	1100	7381	7B2A	7B3A	7391	7B4A	7B5A	7B6A	7B7A	73A1	73B1	73C1	73D1
DSE #7	1986	1100	7382	7B2B	7B3B	7392	7B4B	7B5B	7B6B	7B7B	73A2	73B2	73C2	73D2
DSE #8	1987	1100	7383	7B2C	7B3C	7393	7B4C	7B5C	7B6C	7B7C	73A3	73B3	73C3	73D3
DSE #9	1988	1100	7384	7B2D	7B3D	7394	7B4D	7B5D	7B6D	7B7D	73A4	73B4	73C4	73D4
DSE #10	1989	1100	7385	7B2E	7B3E	7395	7B4E	7B5E	7B6E	7B7E	73A5	73B5	73C5	73D5
DSE #11	198A	1100	7386	7B2F	7B3F	7396	7B4F	7B5F	7B6F	7B7F	73A6	73B6	73C6	73D6
DSE #12	198B	1100	7387	7B30	7B40	7397	7B50	7B60	7B70	7B80	73A7	73B7	73C7	73D7
DSE #13	198C	1100	7388	7B31	7B41	7398	7B51	7B61	7B71	7B81	73A8	73B8	73C8	73D8
DSE #14	198D	1100	7389	7B32	7B42	7399	7B52	7B62	7B72	7B82	73A9	73B9	73C9	73D9
DSE #15	198E	1100	738A	7B33	7B43	739A	7B53	7B63	7B73	7B83	73AA	73BA	73CA	73DA
DSE #16	198F	1100	738B	7B34	7B44	739B	7B54	7B64	7B74	7B84	73AB	73BB	73CB	73DB
DSE #17	1990	1100	42AE	7E86	7E8F	42B7	7E98	7EA1	7EAA	7EB3	42C0	42C9	42D2	42DB
DSE #18	1991	1100	42AF	7E87	7E90	42B8	7E99	7EA2	7EAB	7EB4	42C1	42CA	42D3	42DC
DSE #19	1992	1100	42B0	7E88	7E91	42B9	7E9A	7EA3	7EAC	7EB5	42C2	42CB	42D4	42DD
DSE #20	1993	1100	42B1	7E89	7E92	42BA	7E9B	7EA4	7EAD	7EB6	42C3	42CC	42D5	42DE
DSE #21	1994	1100	42B2	7E8A	7E93	42BB	7E9C	7EA5	7EAE	7EB7	42C4	42CD	42D6	42DF
DSE #22	1995	1100	42B3	7E8B	7E94	42BC	7E9D	7EA6	7EAF	7EB8	42C5	42CE	42D7	42E0
DSE #23	1996	1100	42B4	7E8C	7E95	42BD	7E9E	7EA7	7EB0	7EB9	42C6	42CF	42D8	42E1

## DNP Slave Export Modules -- Handle Map

(all Handles in Hex)

		Output Register	Setup Registers											
DSE #24	1997	1100	42B5	7E8D	7E96	42BE	7E9F	7EA8	7EB1	7EBA	42C7	42D0	42D9	42E2
DSE #25	1998	1100	42B6	7E8E	7E97	42BF	7EA0	7EA9	7EB2	7EBB	42C8	42D1	42DA	42E3

## DNP Slave Import Modules -- Handle Map

(all Handles in Hex)

	Output Registers					Setup Registers		
	Module Handle	AnalogOut (NVR)	Relay1 (BVR)	Relay2 (BVR)	Event (EVR)	DNPPoint (NBR)	DNPObjGrp (ENR)	RelayMode (ENR)
DSI #1	1A00	5CDF	61CD	6209	1100	73DC	7B85	7C14
DSI #2	1A01	5CE0	61CE	620A	1100	73DD	7B86	7C15
DSI #3	1A02	5CE1	61CF	620B	1100	73DE	7B87	7C16
DSI #4	1A03	5CE2	61D0	620C	1100	73DF	7B88	7C17
DSI #5	1A04	5CE3	61D1	620D	1100	73E0	7B89	7C18
DSI #6	1A05	5CE4	61D2	620E	1100	73E1	7B8A	7C19
DSI #7	1A06	5CE5	61D3	620F	1100	73E2	7B8B	7C1A
DSI #8	1A07	5CE6	61D4	6210	1100	73E3	7B8C	7C1B
DSI #9	1A08	5CE7	61D5	6211	1100	73E4	7B8D	7C1C
DSI #10	1A09	5CE8	61D6	6212	1100	73E5	7B8E	7C1D
DSI #11	1A0A	5CE9	61D7	6213	1100	73E6	7B8F	7C1E
DSI #12	1A0B	5CEA	61D8	6214	1100	73E7	7B90	7C1F
DSI #13	1A0C	5CEB	61D9	6215	1100	73E8	7B91	7C20
DSI #14	1A0D	5CEC	61DA	6216	1100	73E9	7B92	7C21
DSI #15	1A0E	5CED	61DB	6217	1100	73EA	7B93	7C22
DSI #16	1A0F	5CEE	61DC	6218	1100	73EB	7B94	7C23

## DNP Slave Options Modules -- Handle Map

(all Handles in Hex)

		Output Registers						Setup Registers							
Module Name	Module Handle	BinInEv (NVR)	FrzCntEv (NVR)	CntChangeEv (NVR)	FrzAIEv (NVR)	AICChangeEv (NVR)	Event (EVR)	BinInStatic (ENR)	BinInEvents (ENR)	BinInEvDepth (NBR)	BinCntStatic (ENR)	FrzCntStatic (ENR)	FrzCntEvents (ENR)	FrzCntEvDepth (NBR)	CntChangeEvents (ENR)
DSO #1	1A80	5CEF	5CF0	5CF1	5CF2	5CF3	1100	7B95	7B96	73EC	7B97	7B98	7B99	73ED	7B9A

		Setup Registers													
Module Name	Module Handle	CntChangeEvDepth (NBR)	AISstatic (ENR)	FrzAISstatic (ENR)	FrzAIEEvents (ENR)	FrzAIEvDepth (NBR)	AICChangeEvents (ENR)	AICChangeEvDepth (NBR)	AOSstatic (ENR)	SelectTimeout (NBR)	TimeSyncPeriod (NBR)	ALFragSize (NBR)	DIAck (ENR)	DLTimeout (NBR)	DLNumRetries (NBR)
DSO #1	1A80	73EE	7B9B	7B9C	7B9D	73EF	7B9E	73F0	7B9F	73F1	73F2	73F3	7BA0	73F4	73F5

## Event Log Controller Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Register	Setup Registers		
		Event Log (ELR)	Event Log Depth (NBR)	Alarm Priority (NBR)	Cutoff (NBR)
ELC #1	0B80	1000	71E6	71E7	7305

## External Numeric Control Module -- Handle Map

(all Handles in Hex)

		Output Register	Setup Register
Module Name	Module Handle	Numeric (NVR)	EvPriority (NBR)
EXT NUM#1	0D00	5ADC	74CD
EXT NUM#2	0D01	5ADD	74CE
EXT NUM#3	0D02	5ADE	74CF
EXT NUM#4	0D03	5ADF	74D0
EXT NUM#5	0D04	5AE0	74D1
EXT NUM#6	0D05	5AE1	74D2
EXT NUM#7	0D06	5AE2	74D3
EXT NUM#8	0D07	5AE3	74D4

added 12 modules - Nov 97

EXT NUM#9	0D08	5E42	759D
EXT NUM#10	0D09	5E43	759E
EXT NUM#11	0D0A	5E44	759F
EXT NUM#12	0D0B	5E45	75A0
EXT NUM#13	0D0C	5E46	75A1
EXT NUM#14	0D0D	5E47	75A2
EXT NUM#15	0D0E	5E48	75A3
EXT NUM#16	0D0F	5E49	75A4
EXT NUM#17	0D10	5E4A	75A5
EXT NUM#18	0D11	5E4B	75A6
EXT NUM#19	0D12	5E4C	75A7
EXT NUM#20	0D13	5E4D	75A8

		Output Register	Setup Register
Module Name	Module Handle	Numeric (NVR)	EvPriority (NBR)

added 20 - May 99

EXT NUM#21	0D14	4B7A	77CB
EXT NUM#22	0D15	4B7B	77CC
EXT NUM#23	0D16	4B7C	77CD
EXT NUM#24	0D17	4B7D	77CE
EXT NUM#25	0D18	4B7E	77CF
EXT NUM#26	0D19	4B7F	77D0
EXT NUM#27	0D1A	4B80	77D1
EXT NUM#28	0D1B	4B81	77D2
EXT NUM#29	0D1C	4B82	77D3
EXT NUM#30	0D1D	4B83	77D4
EXT NUM#31	0D1E	4B84	77D5
EXT NUM#32	0D1F	4B85	77D6
EXT NUM#33	0D20	4B86	77D7
EXT NUM#34	0D21	4B87	77D8
EXT NUM#35	0D22	4B88	77D9
EXT NUM#36	0D23	4B89	77DA
EXT NUM#37	0D24	4B8A	77DB
EXT NUM#38	0D25	4B8B	77DC
EXT NUM#39	0D26	4B8C	77DD
EXT NUM#40	0D27	4B8D	77DE



## External Boolean Control Module -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Register	Setup Register
		Switch (BR)	EvPriority (NBR)
EXT BOOL#1	1180	608F	74AD
EXT BOOL#2	1181	6090	74AE
EXT BOOL#3	1182	6091	74AF
EXT BOOL#4	1183	6092	74B0
EXT BOOL#5	1184	6093	74B1
EXT BOOL#6	1185	6094	74B2
EXT BOOL#7	1186	6095	74B3
EXT BOOL#8	1187	6096	74B4
EXT BOOL#9	1188	6097	74B5
EXT BOOL#10	1189	6098	74B6
EXT BOOL#11	118A	6099	74B7
EXT BOOL#12	118B	609A	74B8
EXT BOOL#13	118C	609B	74B9
EXT BOOL#14	118D	609C	74BA
EXT BOOL#15	118E	609D	74BB
EXT BOOL#16	118F	609E	74BC
EXT BOOL#17	1190	609F	74BD
EXT BOOL#18	1191	60A0	74BE
EXT BOOL#19	1192	60A1	74BF
EXT BOOL#20	1193	60A2	74C0

Module Name	Module Handle	Output Register	Setup Register
		Switch (BR)	EvPriority (NBR)
EXT BOOL#21	1194	60A3	74C1
EXT BOOL#22	1195	60A4	74C2
EXT BOOL#23	1196	60A5	74C3
EXT BOOL#24	1197	60A6	74C4
EXT BOOL#25	1198	60A7	74C5
EXT BOOL#26	1199	60A8	74C6
EXT BOOL#27	119A	60A9	74C7
EXT BOOL#28	119B	60AA	74C8
EXT BOOL#29	119C	60AB	74C9
EXT BOOL#30	119D	60AC	74CA
EXT BOOL#31	119E	60AD	74CB
EXT BOOL#32	119F	60AE	74CC

28 External Boolean registers - Added April 18, 2000

EXT BOOL#33	11A0	633E	77E4
EXT BOOL#34	11A1	633F	77E5
EXT BOOL#35	11A2	6340	77E6
EXT BOOL#36	11A3	6341	77E7
EXT BOOL#37	11A4	6342	77E8
EXT BOOL#38	11A5	6343	77E9
EXT BOOL#39	11A6	6344	77EA
EXT BOOL#40	11A7	6345	77EB

## External Boolean Control Module -- Handle Map

(all Handles in Hex)

		Output Register	Setup Register
Module Name	Module Handle	Switch (BR)	EvPriority (NBR)
EXT BOOL#41	11A8	6346	77EC
EXT BOOL#42	11A9	6347	77ED
EXT BOOL#43	11AA	6348	77EE
EXT BOOL#44	11AB	6349	77EF
EXT BOOL#45	11AC	634A	77F0
EXT BOOL#46	11AD	634B	77F1
EXT BOOL#47	11AE	634C	77F2
EXT BOOL#48	11AF	634D	77F3
EXT BOOL#49	11B0	634E	77F4
EXT BOOL#50	11B1	634F	77F5
EXT BOOL#51	11B2	6350	77F6
EXT BOOL#52	11B3	6351	77F7
EXT BOOL#53	11B4	6352	77F8
EXT BOOL#54	11B5	6353	77F9
EXT BOOL#55	11B6	6354	77FA
EXT BOOL#56	11B7	6355	77FB
EXT BOOL#57	11B8	6356	77FC
EXT BOOL#58	11B9	6357	77FD
EXT BOOL#59	11BA	6358	77FE
EXT BOOL#60	11BB	6359	77FF

		Output Register	Setup Register
Module Name	Module Handle	Switch (BR)	EvPriority (NBR)

## External Pulse Control Module -- Handle Map

(all Handles in Hex)

		Output Register	Setup Register
Module Name	Module Handle	Trigger (PR)	EvPriority (NBR)
EXT PULSE#1	1200	68AE	74D5
EXT PULSE#2	1201	68AF	74D6
EXT PULSE#3	1202	68B0	74D7
EXT PULSE#4	1203	68B1	74D8
EXT PULSE#5	1204	68B2	74D9
EXT PULSE#6	1205	68B3	74DA
EXT PULSE#7	1206	68B4	74DB
EXT PULSE#8	1207	68B5	74DC
EXT PULSE#9	1208	68B6	74DD
EXT PULSE#10	1209	68B7	74DE
EXT PULSE#11	120A	68B8	74DF
EXT PULSE#12	120B	68B9	74E0
EXT PULSE#13	120C	68BA	74E1
EXT PULSE#14	120D	68BB	74E2
EXT PULSE#15	120E	68BC	74E3
EXT PULSE#16	120F	68BD	74E4
EXT PULSE#17	1210	68BE	74E5
EXT PULSE#18	1211	68BF	74E6
EXT PULSE#19	1212	68C0	74E7
EXT PULSE#20	1213	68C1	74E8

		Output Register	Setup Register
Module Name	Module Handle	Trigger (PR)	EvPriority (NBR)
EXT PULSE#21	1214	68C2	74E9
EXT PULSE#22	1215	68C3	74EA
EXT PULSE#23	1216	68C4	74EB
EXT PULSE#24	1217	68C5	74EC
EXT PULSE#25	1218	68C6	74ED
EXT PULSE#26	1219	68C7	74EE
EXT PULSE#27	121A	68C8	74EF
EXT PULSE#28	121B	68C9	74F0
EXT PULSE#29	121C	68CA	74F1
EXT PULSE#30	121D	68CB	74F2
EXT PULSE#31	121E	68CC	74F3
EXT PULSE#32	121F	68CD	74F4
EXT PULSE#33	1220	68CE	74F5
EXT PULSE#34	1221	68CF	74F6
EXT PULSE#35	1222	68D0	74F7
EXT PULSE#36	1223	68D1	74F8
EXT PULSE#37	1224	68D2	74F9
EXT PULSE#38	1225	68D3	74FA
EXT PULSE#39	1226	68D4	74FB
EXT PULSE#40	1227	68D5	74FC

## External Pulse Control Module -- Handle Map

(all Handles in Hex)

		Output Register	Setup Register
Module Name	Module Handle	Trigger (PR)	EvPriority (NBR)
EXT PULSE#41	1228	68D6	74FD
EXT PULSE#42	1229	68D7	74FE
EXT PULSE#43	122A	68D8	74FF
EXT PULSE#44	122B	68D9	7500
EXT PULSE#45	122C	68DA	7501
EXT PULSE#46	122D	68DB	7502
EXT PULSE#47	122E	68DC	7503
EXT PULSE#48	122F	68DD	7504
EXT PULSE#49	1230	68DE	7505
EXT PULSE#50	1231	68DF	7506
EXT PULSE#51	1232	68E0	7507
EXT PULSE#52	1233	68E1	7508
EXT PULSE#53	1234	68E2	7509
EXT PULSE#54	1235	68E3	750A
EXT PULSE#55	1236	68E4	750B
EXT PULSE#56	1237	68E5	750C
EXT PULSE#57	1238	68E6	750D
EXT PULSE#58	1239	68E7	750E
EXT PULSE#59	123A	68E8	750F
EXT PULSE#60	123B	68E9	7510

		Output Register	Setup Register
Module Name	Module Handle	Trigger (PR)	EvPriority (NBR)
EXT PULSE#61	123C	68EA	7511
EXT PULSE#62	123D	68EB	7512
EXT PULSE#63	123E	68EC	7513
EXT PULSE#64	123F	68ED	7514
EXT PULSE#65	1240	68EE	7515
EXT PULSE#66	1241	68EF	7516
EXT PULSE#67	1242	68F0	7517
EXT PULSE#68	1243	68F1	7518
EXT PULSE#69	1244	68F2	7519
EXT PULSE#70	1245	68F3	751A
EXT PULSE#71	1246	68F4	751B
EXT PULSE#72	1247	68F5	751C
EXT PULSE#73	1248	68F6	751D
EXT PULSE#74	1249	68F7	751E
EXT PULSE#75	124A	68F8	751F
EXT PULSE#76	124B	68F9	7520
EXT PULSE#77	124C	68FA	7521
EXT PULSE#78	124D	68FB	7522
EXT PULSE#79	124E	68FC	7523
EXT PULSE#80	124F	68FD	7524

## External Pulse Control Module -- Handle Map

(all Handles in Hex)

		Output Register	Setup Register
Module Name	Module Handle	Trigger (PR)	EvPriority (NBR)
EXT PULSE#81	1250	68FE	7525
EXT PULSE#82	1251	68FF	7526
EXT PULSE#83	1252	6900	7527
EXT PULSE#84	1253	6901	7528
EXT PULSE#85	1254	6902	7529
EXT PULSE#86	1255	6903	752A
EXT PULSE#87	1256	6904	752B
EXT PULSE#88	1257	6905	752C
EXT PULSE#89	1258	6906	752D
EXT PULSE#90	1259	6907	752E
EXT PULSE#91	125A	6908	752F
EXT PULSE#92	125B	6909	7530
EXT PULSE#93	125C	690A	7531
EXT PULSE#94	125D	690B	7532
EXT PULSE#95	125E	690C	7533
EXT PULSE#96	125F	690D	7534
EXT PULSE#97	1260	690E	7535
EXT PULSE#98	1261	690F	7536
EXT PULSE#99	1262	6910	7537
EXT PULSE#100	1263	6911	7538

		Output Register	Setup Register
Module Name	Module Handle	Trigger (PR)	EvPriority (NBR)
EXT PULSE#101	1264	6912	7539
EXT PULSE#102	1265	6913	753A
EXT PULSE#103	1266	6914	753B
EXT PULSE#104	1267	6915	753C
EXT PULSE#105	1268	6916	753D
EXT PULSE#106	1269	6917	753E
EXT PULSE#107	126A	6918	753F
EXT PULSE#108	126B	6919	7540
EXT PULSE#109	126C	691A	7541
EXT PULSE#110	126D	691B	7542
EXT PULSE#111	126E	691C	7543
EXT PULSE#112	126F	691D	7544
EXT PULSE#113	1270	691E	7545
EXT PULSE#114	1271	691F	7546
EXT PULSE#115	1272	6920	7547
EXT PULSE#116	1273	6921	7548
EXT PULSE#117	1274	6922	7549
EXT PULSE#118	1275	6923	754A
EXT PULSE#119	1276	6924	754B
EXT PULSE#120	1277	6925	754C

## External Pulse Control Module -- Handle Map

(all Handles in Hex)

		Output Register	Setup Register
Module Name	Module Handle	Trigger (PR)	EvPriority (NBR)
EXT PULSE#121	1278	6926	754D
EXT PULSE#122	1279	6927	754E
EXT PULSE#123	127A	6928	754F
EXT PULSE#124	127B	6929	7550
EXT PULSE#125	127C	692A	7551
EXT PULSE#126	127D	692B	7552
EXT PULSE#127	127E	692C	7553
EXT PULSE#128	127F	692D	7554

		Output Register	Setup Register
Module Name	Module Handle	Trigger (PR)	EvPriority (NBR)

## Factory Module -- Handle Map

(all Handles in Hex)

Setup Registers																				
Module Name	Module Handle	Device Type (SR)	Compliance (SR)	Options (SR)	Revision (SR)	Serial Number (SR)	ION Version (NBR)	Template (SR)	Factory Default Template (SR)	Owner (SR)	Tag1 (SR)	Tag2 (SR)	V Nominal (NBR)	I Nominal (NBR)	I4 Nominal (NBR)	I20 Nominal (NBR)	V1 cal (NBR)	V2 cal (NBR)	V3 cal (NBR)	I1 cal (NBR)
FAC #1	3	1300	1301	1302	1303	1304	772E	137D	137E	1345	1346	1347	71EB	71EC	71ED	71EE	71EF	71F0	71F1	71F2

		Setup Registers																	
Module Name	Module Handle	I2 cal (NBR)	I3 cal (NBR)	I4 cal (NBR)	I1x20 cal (NBR)	I2x20 cal (NBR)	I3x20 cal (NBR)	CT1a Smooth (NBR)	CT1b Smooth (NBR)	CT1c Smooth (NBR)	CT2a Smooth (NBR)	CT2b Smooth (NBR)	CT2c Smooth (NBR)	CT3a Smooth (NBR)	CT3b Smooth (NBR)	CT3c Smooth (NBR)	I1 off (NBR)	I2 off (NBR)	I3 off (NBR)
FAC #1	3	71F3	71F4	71F5	71F6	71F7	71F8	71F9	71FA	71FB	71FC	71FD	71FE	71FF	7200	7201	7202	7203	7204

## Factory Module -- Handle Map

(all Handles in Hex)

		Setup Registers													
Module Name	Module Handle	I4 off (NBR)	V force (NBR)	I force (NBR)	I4 force (NBR)	Vx force (NBR)	Vx1 cal (NBR)	Vx2 cal (NBR)	Vx3 cal (NBR)	Vx4 cal (NBR)	Vx1 dc (NBR)	Vx2 dc (NBR)	Vx3 dc (NBR)	Vx4 dc (NBR)	Nom Freq (ENR)
FAC #1	3	7205	7206	7207	7208	7209	720A	720B	720C	720D	720E	720F	7210	7211	798B

Added Factory setup registers for 7500 -- April 1998

		Setup Registers																	
Module Name	Module Handle	V1NCAL (NBR)	V2NCAL (NBR)	V3NCAL (NBR)	V4NCAL (NBR)	V1OCAL (NBR)	V2OCAL (NBR)	V3OCAL (NBR)	V4OCAL (NBR)	I1KCAL (NBR)	I2KCAL (NBR)	I3KCAL (NBR)	I4KCAL (NBR)	I5KCAL (NBR)	I1UCAL (NBR)	I2UCAL (NBR)	I3UCAL (NBR)	I4UCAL (NBR)	I5UCAL (NBR)
FAC #1	3	75AF	75B0	75B1	75B2	75B3	75B4	75B5	75B6	75B7	75B8	75B9	75BA	75BB	75BC	75BD	75BE	75BF	75C0

		Setup Registers											
Module Name	Module Handle	I1NCAL (NBR)	I2NCAL (NBR)	I3NCAL (NBR)	I4NCAL (NBR)	I5NCAL (NBR)	I1OCAL (NBR)	I2OCAL (NBR)	I3OCAL (NBR)	I4OCAL (NBR)	I5OCAL (NBR)	V4FORCE (NBR)	I5FORCE (NBR)
FAC #1	3	75C1	75C2	75C3	75C4	75C5	75C6	75C7	75C8	75C9	75CA	75CB	75CC



## Factory Module -- Handle Map

(all Handles in Hex)

Added Factory setup registers for 7500 -- April 2000

Setup Registers		
Module Name	Module Handle	NomFreqNum (NBR)
FAC #1	3	426F

## Feedback Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers	
		Pulse Out (PR)	Event (EVR)
Feedback #1	1C00	6A94	1100
Feedback #2	1C01	6A95	1100
Feedback #3	1C02	6A96	1100
Feedback #4	1C03	6A97	1100
Feedback #5	1C04	6A98	1100
Feedback #6	1C05	6A99	1100
Feedback #7	1C06	6A9A	1100
Feedback #8	1C07	6A9B	1100
Feedback #9	1C08	6A9C	1100
Feedback #10	1C09	6A9D	1100

added 10 - Feb 99

Feedback #11	1C0A	6D7E	1100
Feedback #12	1C0B	6D7F	1100
Feedback #13	1C0C	6D80	1100
Feedback #14	1C0D	6D81	1100
Feedback #15	1C0E	6D82	1100
Feedback #16	1C0F	6D83	1100
Feedback #17	1C10	6D84	1100
Feedback #18	1C11	6D85	1100
Feedback #19	1C12	6D86	1100
Feedback #20	1C13	6D87	1100

Module Name	Module Handle	Output Registers	
		Pulse Out (PR)	Event (EVR)

added 20 - May 99

Feedback #21	1C14	6F12	1100
Feedback #22	1C15	6F13	1100
Feedback #23	1C16	6F14	1100
Feedback #24	1C17	6F15	1100
Feedback #25	1C18	6F16	1100
Feedback #26	1C19	6F17	1100
Feedback #27	1C1A	6F18	1100
Feedback #28	1C1B	6F19	1100
Feedback #29	1C1C	6F1A	1100
Feedback #30	1C1D	6F1B	1100
Feedback #31	1C1E	6F1C	1100
Feedback #32	1C1F	6F1D	1100
Feedback #33	1C20	6F1E	1100
Feedback #34	1C21	6F1F	1100
Feedback #35	1C22	6F20	1100
Feedback #36	1C23	6F21	1100
Feedback #37	1C24	6F22	1100
Feedback #38	1C25	6F23	1100
Feedback #39	1C26	6F24	1100
Feedback #40	1C27	6F25	1100

## FFT Modules -- Handle Map

(all Handles in Hex)

		Output Registers	
Module Name	Module Handle	FFT(NAR)	Event (EVR)
FFT #1	700	0F00	1100
FFT #2	0701	0F01	1100
FFT #3	0702	0F02	1100
FFT #4	0703	0F03	1100
FFT #5	0704	0F04	1100
FFT #6	0705	0F05	1100
FFT #7	0706	0F06	1100
FFT #8	0707	0F14	1100
FFT #9	0708	0F15	1100

V4, 7500  
I5, 7500

## Flicker Modules -- Handle Map

(all Handles in Hex)

		Output Registers										Setup Registers		
Module Name	Module Handle	Phase 1 Pst (NVR)	Phase 2 Pst (NVR)	Phase 3 Pst (NVR)	Phase 1 Plt (NVR)	Phase 2 Plt (NVR)	Phase 3 Plt (NVR)	Seconds Until Pst Update (NVR)	Phase 1 Plt (NVR)	Pst Update (PR)	Plt Update (PR)	Pst Period (NBR)	Plt Period (NBR)	Lamp Type (ENR)
FLK #1	1F80	4D3C	4D3E	4D40	4D42	4D44	4D46	4D48	4D4A	6F3E	6F40	40A0	40A2	7DB5
FLK #2	1F81	4D3D	4D3F	4D41	4D43	4D45	4D47	4D49	4D4B	6F3F	6F41	40A1	40A3	7DB6

## Harmonic Analyser Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers																
		HD1(NVR)	HD2(NVR)	HD3(NVR)	HD4(NVR)	HD5(NVR)	HD6(NVR)	HD7(NVR)	HD8(NVR)	HD9(NVR)	HD10(NVR)	HD11(NVR)	HD12(NVR)	HD13(NVR)	HD14(NVR)	HD15(NVR)	HD16(NVR)	HD17(NVR)
HA #1	780	5900	5901	5902	5903	5904	5905	5906	5907	5908	5909	590A	590B	590C	590D	590E	590F	5910
HA #2	0781	5942	5943	5944	5945	5946	5947	5948	5949	594A	594B	594C	594D	594E	594F	5950	5951	5952
HA #3	0782	5984	5985	5986	5987	5988	5989	598A	598B	598C	598D	598E	598F	5990	5991	5992	5993	5994
HA #4	0783	59C6	59C7	59C8	59C9	59CA	59CB	59CC	59CD	59CE	59CF	59D0	59D1	59D2	59D3	59D4	59D5	59D6
HA #5	0784	5A09	5A0A	5A0B	5A0C	5A0D	5A0E	5A0F	5A10	5A11	5A12	5A13	5A14	5A15	5A16	5A17	5A18	5A19
HA #6	0785	5A4C	5A4D	5A4E	5A4F	5A50	5A51	5A52	5A53	5A54	5A55	5A56	5A57	5A58	5A59	5A5A	5A5B	5A5C
HA #7	0786	5A8F	5A90	5A91	5A92	5A93	5A94	5A95	5A96	5A97	5A98	5A99	5A9A	5A9B	5A9C	5A9D	5A9E	5A9F
HA #8	0787	5E54	5E55	5E56	5E57	5E58	5E59	5E5A	5E5B	5E5C	5E5D	5E5E	5E5F	5E60	5E61	5E62	5E63	5E64
HA #9	0788	5E96	5E97	5E98	5E99	5E9A	5E9B	5E9C	5E9D	5E9E	5E9F	5EA0	5EA1	5EA2	5EA3	5EA4	5EA5	5EA6

V4  
I5

## Harmonic Analyser Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers																
		HD18(NVR)	HD19(NVR)	HD20(NVR)	HD21(NVR)	HD22(NVR)	HD23(NVR)	HD24(NVR)	HD25(NVR)	HD26(NVR)	HD27(NVR)	HD28(NVR)	HD29(NVR)	HD30(NVR)	HD31(NVR)	HD32(NVR)	HD33(NVR)	HD34(NVR)
HA #1	780	5911	5912	5913	5914	5915	5916	5917	5918	5919	591A	591B	591C	591D	591E	591F	5920	5921
HA #2	0781	5953	5954	5955	5956	5957	5958	5959	595A	595B	595C	595D	595E	595F	5960	5961	5962	5963
HA #3	0782	5995	5996	5997	5998	5999	599A	599B	599C	599D	599E	599F	59A0	59A1	59A2	59A3	59A4	59A5
HA #4	0783	59D7	59D8	59D9	59DA	59DB	59DC	59DD	59DE	59DF	59E0	59E1	59E2	59E3	59E4	59E5	59E6	59E7
HA #5	0784	5A1A	5A1B	5A1C	5A1D	5A1E	5A1F	5A20	5A21	5A22	5A23	5A24	5A25	5A26	5A27	5A28	5A29	5A2A
HA #6	0785	5A5D	5A5E	5A5F	5A60	5A61	5A62	5A63	5A64	5A65	5A66	5A67	5A68	5A69	5A6A	5A6B	5A6C	5A6D
HA #7	0786	5AA0	5AA1	5AA2	5AA3	5AA4	5AA5	5AA6	5AA7	5AA8	5AA9	5AAA	5AAB	5AAC	5AAD	5AAE	5AAF	5AB0
HA #8	0787	5E65	5E66	5E67	5E68	5E69	5E6A	5E6B	5E6C	5E6D	5E6E	5E6F	5E70	5E71	5E72	5E73	5E74	5E75
HA #9	0788	5EA7	5EA8	5EA9	5EAA	5EAB	5EAC	5EAD	5EAE	5EAF	5EB0	5EB1	5EB2	5EB3	5EB4	5EB5	5EB6	5EB7

V4  
I5

## Harmonic Analyser Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	HD35(NVR)	HD36(NVR)	HD37(NVR)	HD38(NVR)	HD39(NVR)	HD40(NVR)	HD41(NVR)	HD42(NVR)	HD43(NVR)	HD44(NVR)	HD45(NVR)	HD46(NVR)	HD47(NVR)	HD48(NVR)	HD49(NVR)	HD50(NVR)	HD51(NVR)	
HA #1	780	5922	5923	5924	5925	5926	5927	5928	5929	592A	592B	592C	592D	592E	592F	5930	5931	5932	
HA #2	0781	5964	5965	5966	5967	5968	5969	596A	596B	596C	596D	596E	596F	5970	5971	5972	5973	5974	
HA #3	0782	59A6	59A7	59A8	59A9	59AA	59AB	59AC	59AD	59AE	59AF	59B0	59B1	59B2	59B3	59B4	59B5	59B6	
HA #4	0783	59E8	59E9	59EA	59EB	59EC	59ED	59EE	59EF	59F0	59F1	59F2	59F3	59F4	59F5	59F6	59F7	59F8	
HA #5	0784	5A2B	5A2C	5A2D	5A2E	5A2F	5A30	5A31	5A32	5A33	5A34	5A35	5A36	5A37	5A38	5A39	5A3A	5A3B	
HA #6	0785	5A6E	5A6F	5A70	5A71	5A72	5A73	5A74	5A75	5A76	5A77	5A78	5A79	5A7A	5A7B	5A7C	5A7D	5A7E	
HA #7	0786	5AB1	5AB2	5AB3	5AB4	5AB5	5AB6	5AB7	5AB8	5AB9	5ABA	5ABB	5ABC	5ABD	5ABE	5ABF	5AC0	5AC1	
HA #8	0787	5E76	5E77	5E78	5E79	5E7A	5E7B	5E7C	5E7D	5E7E	5E7F	5E80	5E81	5E82	5E83	5E84	5E85	5E86	
HA #9	0788	5EB8	5EB9	5EBA	5EBB	5EBC	5EBD	5EBE	5EBF	5EC0	5EC1	5EC2	5EC3	5EC4	5EC5	5EC6	5EC7	5EC8	

V4  
I5

## Harmonic Analyser Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	HD52(NVR)	HD53(NVR)	HD54(NVR)	HD55(NVR)	HD56(NVR)	HD57(NVR)	HD58(NVR)	HD59(NVR)	HD60(NVR)	HD61(NVR)	HD62(NVR)	HD63(NVR)	THD(NVR)	TEHD (NVR)	TOHD (NVR)	Kfactor (NVR)	CrestFactor (NVR)	Event (EVR)
HA #1	780	5933	5934	5935	5936	5937	5938	5939	593A	593B	593C	593D	593E	593F	5940	5941	N/A	N/A	1100
HA #2	0781	5975	5976	5977	5978	5979	597A	597B	597C	597D	597E	597F	5980	5981	5982	5983	N/A	N/A	1100
HA #3	0782	59B7	59B8	59B9	59BA	59BB	59BC	59BD	59BE	59BF	59C0	59C1	59C2	59C3	59C4	59C5	N/A	N/A	1100
HA #4	0783	59F9	59FA	59FB	59FC	59FD	59FE	59FF	5A00	5A01	5A02	5A03	5A04	5A05	5A06	5A07	5A08	5EDA	1100
HA #5	0784	5A3C	5A3D	5A3E	5A3F	5A40	5A41	5A42	5A43	5A44	5A45	5A46	5A47	5A48	5A49	5A4A	5A4B	5EDB	1100
HA #6	0785	5A7F	5A80	5A81	5A82	5A83	5A84	5A85	5A86	5A87	5A88	5A89	5A8A	5A8B	5A8C	5A8D	5A8E	5EDC	1100
HA #7	0786	5AC2	5AC3	5AC4	5AC5	5AC6	5AC7	5AC8	5AC9	5ACA	5ACB	5ACC	5ACD	5ACE	5ACF	5AD0	5AD1	5EDD	1100
HA #8	0787	5E87	5E88	5E89	5E8A	5E8B	5E8C	5E8D	5E8E	5E8F	5E90	5E91	5E92	5E93	5E94	5E95	N/A	N/A	1100
HA #9	0788	5EC9	5ECA	5ECB	5ECC	5ECD	5ECE	5ECF	5ED0	5ED1	5ED2	5ED3	5ED4	5ED5	5ED6	5ED7	5ED8	5ED9	1100

Note:

HA#1-HA#3 = Voltage Harmonics

HA#4-HA#7 = Current Harmonics

HA#8 = V4 Harmonics, 7500

HA#9 = I5 Harmonics, 7500



## Harmonics Evaluation Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers				Setup Registers				
		Num Valid (NVR)	Num Exceeded (NVR)	Num TD Exceeded (NVR)	Num Invalid (NVR)	Total Limit (NBR)	Event Priority (NBR)	Discard Ratio (NBR)	Evaluation Type (ENR)	Individual Limit (SR)
HEV #1	2080	4EC3	4ED3	4EE3	4EF3	40B3	40C3	40D3	7DD5	54E8
HEV #2	2081	4EC4	4ED4	4EE4	4EF4	40B4	40C4	40D4	7DD6	54E9
HEV #3	2082	4EC5	4ED5	4EE5	4EF5	40B5	40C5	40D5	7DD7	54EA
HEV #4	2083	4EC6	4ED6	4EE6	4EF6	40B6	40C6	40D6	7DD8	54EB
HEV #5	2084	4EC7	4ED7	4EE7	4EF7	40B7	40C7	40D7	7DD9	54EC
HEV #6	2085	4EC8	4ED8	4EE8	4EF8	40B8	40C8	40D8	7DDA	54ED
HEV #7	2086	4EC9	4ED9	4EE9	4EF9	40B9	40C9	40D9	7ddb	54EE
HEV #8	2087	4ECA	4EDA	4EEA	4EFA	40BA	40CA	40DA	7DDC	54EF
HEV #9	2088	4ECB	4EDB	4EEB	4EFB	40BB	40CB	40DB	7DDD	54F0
HEV #10	2089	4ECC	4EDC	4EEC	4EFC	40BC	40CC	40DC	7DDE	54F1
HEV #11	208A	4ECD	4EDD	4EED	4EFD	40BD	40CD	40DD	7DDF	54F2
HEV #12	208B	4ECE	4EDE	4EEE	4EFE	40BE	40CE	40DE	7DE0	54F3
HEV #13	208C	4ECF	4EDF	4EEF	4EFF	40BF	40CF	40DF	7DE1	54F4
HEV #14	208D	4ED0	4EE0	4EF0	4F00	40C0	40D0	40E0	7DE2	54F5
HEV #15	208E	4ED1	4EE1	4EF1	4F01	40C1	40D1	40E1	7DE3	54F6
HEV #16	208F	4ED2	4EE2	4EF2	4F02	40C2	40D2	40E2	7DE4	54F7

## Harmonics Measurement Modules -- Handle Map

(all Handles in Hex)

		Output Registers																
Module Name	Module Handle	Magnitude #1 (NVR)	Magnitude #2 (NVR)	Magnitude #3 (NVR)	Magnitude #4 (NVR)	Magnitude #5 (NVR)	Magnitude #6 (NVR)	Magnitude #7 (NVR)	Magnitude #8 (NVR)	Magnitude #9 (NVR)	Magnitude #10 (NVR)	Magnitude #11 (NVR)	Magnitude #12 (NVR)	Magnitude #13 (NVR)	Magnitude #14 (NVR)	Magnitude #15 (NVR)	Magnitude #16 (NVR)	Magnitude #17 (NVR)
HME #1	2200	3800	3809	3812	381B	3824	382D	3836	383F	3848	3851	385A	3863	386C	3875	387E	3887	3890
HME #2	2201	3801	380A	3813	381C	3825	382E	3837	3840	3849	3852	385B	3864	386D	3876	387F	3888	3891
HME #3	2202	3802	380B	3814	381D	3826	382F	3838	3841	384A	3853	385C	3865	386E	3877	3880	3889	3892
HME #4	2203	3803	380C	3815	381E	3827	3830	3839	3842	384B	3854	385D	3866	386F	3878	3881	388A	3893
HME #5	2204	3804	380D	3816	381F	3828	3831	383A	3843	384C	3855	385E	3867	3870	3879	3882	388B	3894
HME #6	2205	3805	380E	3817	3820	3829	3832	383B	3844	384D	3856	385F	3868	3871	387A	3883	388C	3895
HME #7	2206	3806	380F	3818	3821	382A	3833	383C	3845	384E	3857	3860	3869	3872	387B	3884	388D	3896
HME #8	2207	3807	3810	3819	3822	382B	3834	383D	3846	384F	3858	3861	386A	3873	387C	3885	388E	3897
HME #9	2208	3808	3811	381A	3823	382C	3835	383E	3847	3850	3859	3862	386B	3874	387D	3886	388F	3898

## Harmonics Measurement Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	Magnitude #18 (NVR)	Magnitude #19 (NVR)	Magnitude #20 (NVR)	Magnitude #21 (NVR)	Magnitude #22 (NVR)	Magnitude #23 (NVR)	Magnitude #24 (NVR)	Magnitude #25 (NVR)	Magnitude #26 (NVR)	Magnitude #27 (NVR)	Magnitude #28 (NVR)	Magnitude #29 (NVR)	Magnitude #30 (NVR)	Magnitude #31 (NVR)	Magnitude #32 (NVR)	Magnitude #33 (NVR)	Magnitude #34 (NVR)	
HME #1	2200	3899	38A2	38AB	38B4	38BD	38C6	38CF	38D8	38E1	38EA	38F3	38FC	3905	390E	3917	3920	3929	
HME #2	2201	389A	38A3	38AC	38B5	38BE	38C7	38D0	38D9	38E2	38EB	38F4	38FD	3906	390F	3918	3921	392A	
HME #3	2202	389B	38A4	38AD	38B6	38BF	38C8	38D1	38DA	38E3	38EC	38F5	38FE	3907	3910	3919	3922	392B	
HME #4	2203	389C	38A5	38AE	38B7	38C0	38C9	38D2	38DB	38E4	38ED	38F6	38FF	3908	3911	391A	3923	392C	
HME #5	2204	389D	38A6	38AF	38B8	38C1	38CA	38D3	38DC	38E5	38EE	38F7	3900	3909	3912	391B	3924	392D	
HME #6	2205	389E	38A7	38B0	38B9	38C2	38CB	38D4	38DD	38E6	38EF	38F8	3901	390A	3913	391C	3925	392E	
HME #7	2206	389F	38A8	38B1	38BA	38C3	38CC	38D5	38DE	38E7	38F0	38F9	3902	390B	3914	391D	3926	392F	
HME #8	2207	38A0	38A9	38B2	38BB	38C4	38CD	38D6	38DF	38E8	38F1	38FA	3903	390C	3915	391E	3927	3930	
HME #9	2208	38A1	38AA	38B3	38BC	38C5	38CE	38D7	38E0	38E9	38F2	38FB	3904	390D	3916	391F	3928	3931	

## Harmonics Measurement Modules -- Handle Map

(all Handles in Hex)

		Output Registers																
Module Name	Module Handle	Magnitude #35 (NVR)	Magnitude #36 (NVR)	Magnitude #37 (NVR)	Magnitude #38 (NVR)	Magnitude #39 (NVR)	Magnitude #40 (NVR)	Magnitude #41 (NVR)	Magnitude #42 (NVR)	Magnitude #43 (NVR)	Magnitude #44 (NVR)	Magnitude #45 (NVR)	Magnitude #46 (NVR)	Magnitude #47 (NVR)	Magnitude #48 (NVR)	Magnitude #49 (NVR)	Magnitude #50 (NVR)	Magnitude #51 (NVR)
HME #1	2200	3932	393B	3944	394D	3956	395F	3968	3971	397A	3983	398C	3995	399E	39A7	39B0	39B9	39C2
HME #2	2201	3933	393C	3945	394E	3957	3960	3969	3972	397B	3984	398D	3996	399F	39A8	39B1	39BA	39C3
HME #3	2202	3934	393D	3946	394F	3958	3961	396A	3973	397C	3985	398E	3997	39A0	39A9	39B2	39BB	39C4
HME #4	2203	3935	393E	3947	3950	3959	3962	396B	3974	397D	3986	398F	3998	39A1	39AA	39B3	39BC	39C5
HME #5	2204	3936	393F	3948	3951	395A	3963	396C	3975	397E	3987	3990	3999	39A2	39AB	39B4	39BD	39C6
HME #6	2205	3937	3940	3949	3952	395B	3964	396D	3976	397F	3988	3991	399A	39A3	39AC	39B5	39BE	39C7
HME #7	2206	3938	3941	394A	3953	395C	3965	396E	3977	3980	3989	3992	399B	39A4	39AD	39B6	39BF	39C8
HME #8	2207	3939	3942	394B	3954	395D	3966	396F	3978	3981	398A	3993	399C	39A5	39AE	39B7	39C0	39C9
HME #9	2208	393A	3943	394C	3955	395E	3967	3970	3979	3982	398B	3994	399D	39A6	39AF	39B8	39C1	39CA

## Harmonics Measurement Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	Magnitude #52 (NVR)	Magnitude #53 (NVR)	Magnitude #54 (NVR)	Magnitude #55 (NVR)	Magnitude #56 (NVR)	Magnitude #57 (NVR)	Magnitude #58 (NVR)	Magnitude #59 (NVR)	Magnitude #60 (NVR)	Magnitude #61 (NVR)	Magnitude #62 (NVR)	Magnitude #63 (NVR)	Phase #1 (NVR)	Phase #2 (NVR)	Phase #3 (NVR)	Phase #4 (NVR)	Phase #5 (NVR)	Phase #6 (NVR)
HME #1	2200	39CB	39D4	39DD	39E6	39EF	39F8	3A01	3A0A	3A13	3A1C	3A25	3A2E	3A37	3A40	3A49	3A52	3A5B	3A64
HME #2	2201	39CC	39D5	39DE	39E7	39F0	39F9	3A02	3A0B	3A14	3A1D	3A26	3A2F	3A38	3A41	3A4A	3A53	3A5C	3A65
HME #3	2202	39CD	39D6	39DF	39E8	39F1	39FA	3A03	3A0C	3A15	3A1E	3A27	3A30	3A39	3A42	3A4B	3A54	3A5D	3A66
HME #4	2203	39CE	39D7	39E0	39E9	39F2	39FB	3A04	3A0D	3A16	3A1F	3A28	3A31	3A3A	3A43	3A4C	3A55	3A5E	3A67
HME #5	2204	39CF	39D8	39E1	39EA	39F3	39FC	3A05	3A0E	3A17	3A20	3A29	3A32	3A3B	3A44	3A4D	3A56	3A5F	3A68
HME #6	2205	39D0	39D9	39E2	39EB	39F4	39FD	3A06	3A0F	3A18	3A21	3A2A	3A33	3A3C	3A45	3A4E	3A57	3A60	3A69
HME #7	2206	39D1	39DA	39E3	39EC	39F5	39FE	3A07	3A10	3A19	3A22	3A2B	3A34	3A3D	3A46	3A4F	3A58	3A61	3A6A
HME #8	2207	39D2	39DB	39E4	39ED	39F6	39FF	3A08	3A11	3A1A	3A23	3A2C	3A35	3A3E	3A47	3A50	3A59	3A62	3A6B
HME #9	2208	39D3	39DC	39E5	39EE	39F7	3A00	3A09	3A12	3A1B	3A24	3A2D	3A36	3A3F	3A48	3A51	3A5A	3A63	3A6C

## Harmonics Measurement Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	Phase #7 (NVR)	Phase #8 (NVR)	Phase #9 (NVR)	Phase #10 (NVR)	Phase #11 (NVR)	Phase #12 (NVR)	Phase #13 (NVR)	Phase #14 (NVR)	Phase #15 (NVR)	Phase #16 (NVR)	Phase #17 (NVR)	Phase #18 (NVR)	Phase #19 (NVR)	Phase #20 (NVR)	Phase #21 (NVR)	Phase #22 (NVR)	Phase #23 (NVR)	Phase #24 (NVR)
HME #1	2200	3A6D	3A76	3A7F	3A88	3A91	3A9A	3AA3	3AAC	3AB5	3ABE	3AC7	3AD0	3AD9	3AE2	3AEB	3AF4	3AFD	3B06
HME #2	2201	3A6E	3A77	3A80	3A89	3A92	3A9B	3AA4	3AAD	3AB6	3ABF	3AC8	3AD1	3ADA	3AE3	3AEC	3AF5	3AFE	3B07
HME #3	2202	3A6F	3A78	3A81	3A8A	3A93	3A9C	3AA5	3AAE	3AB7	3AC0	3AC9	3AD2	3ADB	3AE4	3AED	3AF6	3AFF	3B08
HME #4	2203	3A70	3A79	3A82	3A8B	3A94	3A9D	3AA6	3AAF	3AB8	3AC1	3ACA	3AD3	3ADC	3AE5	3AEE	3AF7	3B00	3B09
HME #5	2204	3A71	3A7A	3A83	3A8C	3A95	3A9E	3AA7	3AB0	3AB9	3AC2	3ACB	3AD4	3ADD	3AE6	3AEF	3AF8	3B01	3B0A
HME #6	2205	3A72	3A7B	3A84	3A8D	3A96	3A9F	3AA8	3AB1	3ABA	3AC3	3ACC	3AD5	3ADE	3AE7	3AF0	3AF9	3B02	3B0B
HME #7	2206	3A73	3A7C	3A85	3A8E	3A97	3AA0	3AA9	3AB2	3ABB	3AC4	3ACD	3AD6	3ADF	3AE8	3AF1	3AFA	3B03	3B0C
HME #8	2207	3A74	3A7D	3A86	3A8F	3A98	3AA1	3AAA	3AB3	3ABC	3AC5	3ACE	3AD7	3AE0	3AE9	3AF2	3AFB	3B04	3B0D
HME #9	2208	3A75	3A7E	3A87	3A90	3A99	3AA2	3AAB	3AB4	3ABD	3AC6	3ACF	3AD8	3AE1	3AEA	3AF3	3AFC	3B05	3B0E

## Harmonics Measurement Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	Phase #25 (NVR)	Phase #26 (NVR)	Phase #27 (NVR)	Phase #28 (NVR)	Phase #29 (NVR)	Phase #30 (NVR)	Phase #31 (NVR)	Phase #32 (NVR)	Phase #33 (NVR)	Phase #34 (NVR)	Phase #35 (NVR)	Phase #36 (NVR)	Phase #37 (NVR)	Phase #38 (NVR)	Phase #39 (NVR)	Phase #40 (NVR)	Phase #41 (NVR)	Phase #42 (NVR)
HME #1	2200	3B0F	3B18	3B21	3B2A	3B33	3B3C	3B45	3B4E	3B57	3B60	3B69	3B72	3B7B	3B84	3B8D	3B96	3B9F	3BA8
HME #2	2201	3B10	3B19	3B22	3B2B	3B34	3B3D	3B46	3B4F	3B58	3B61	3B6A	3B73	3B7C	3B85	3B8E	3B97	3BA0	3BA9
HME #3	2202	3B11	3B1A	3B23	3B2C	3B35	3B3E	3B47	3B50	3B59	3B62	3B6B	3B74	3B7D	3B86	3B8F	3B98	3BA1	3BAA
HME #4	2203	3B12	3B1B	3B24	3B2D	3B36	3B3F	3B48	3B51	3B5A	3B63	3B6C	3B75	3B7E	3B87	3B90	3B99	3BA2	3BAB
HME #5	2204	3B13	3B1C	3B25	3B2E	3B37	3B40	3B49	3B52	3B5B	3B64	3B6D	3B76	3B7F	3B88	3B91	3B9A	3BA3	3BAC
HME #6	2205	3B14	3B1D	3B26	3B2F	3B38	3B41	3B4A	3B53	3B5C	3B65	3B6E	3B77	3B80	3B89	3B92	3B9B	3BA4	3BAD
HME #7	2206	3B15	3B1E	3B27	3B30	3B39	3B42	3B4B	3B54	3B5D	3B66	3B6F	3B78	3B81	3B8A	3B93	3B9C	3BA5	3BAE
HME #8	2207	3B16	3B1F	3B28	3B31	3B3A	3B43	3B4C	3B55	3B5E	3B67	3B70	3B79	3B82	3B8B	3B94	3B9D	3BA6	3BAF
HME #9	2208	3B17	3B20	3B29	3B32	3B3B	3B44	3B4D	3B56	3B5F	3B68	3B71	3B7A	3B83	3B8C	3B95	3B9E	3BA7	3BB0

## Harmonics Measurement Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	Phase #43 (NVR)	Phase #44 (NVR)	Phase #45 (NVR)	Phase #46 (NVR)	Phase #47 (NVR)	Phase #48 (NVR)	Phase #49 (NVR)	Phase #50 (NVR)	Phase #51 (NVR)	Phase #52 (NVR)	Phase #53 (NVR)	Phase #54 (NVR)	Phase #55 (NVR)	Phase #56 (NVR)	Phase #57 (NVR)	Phase #58 (NVR)	Phase #59 (NVR)	Phase #60 (NVR)
HME #1	2200	3BB1	3BBA	3BC3	3BCC	3BD5	3BDE	3BE7	3BF0	3BF9	3C02	3C0B	3C14	3C1D	3C26	3C2F	3C38	3C41	3C4A
HME #2	2201	3BB2	3BBB	3BC4	3BCD	3BD6	3BDF	3BE8	3BF1	3BFA	3C03	3C0C	3C15	3C1E	3C27	3C30	3C39	3C42	3C4B
HME #3	2202	3BB3	3BBC	3BC5	3BCE	3BD7	3BE0	3BE9	3BF2	3BFB	3C04	3C0D	3C16	3C1F	3C28	3C31	3C3A	3C43	3C4C
HME #4	2203	3BB4	3BBD	3BC6	3BCF	3BD8	3BE1	3BEA	3BF3	3BFC	3C05	3C0E	3C17	3C20	3C29	3C32	3C3B	3C44	3C4D
HME #5	2204	3BB5	3BBE	3BC7	3BD0	3BD9	3BE2	3BEB	3BF4	3BFD	3C06	3C0F	3C18	3C21	3C2A	3C33	3C3C	3C45	3C4E
HME #6	2205	3BB6	3BBF	3BC8	3BD1	3BDA	3BE3	3BEC	3BF5	3BFE	3C07	3C10	3C19	3C22	3C2B	3C34	3C3D	3C46	3C4F
HME #7	2206	3BB7	3BC0	3BC9	3BD2	3BDB	3BE4	3BED	3BF6	3BFF	3C08	3C11	3C1A	3C23	3C2C	3C35	3C3E	3C47	3C50
HME #8	2207	3BB8	3BC1	3BCA	3BD3	3BDC	3BE5	3BEE	3BF7	3C00	3C09	3C12	3C1B	3C24	3C2D	3C36	3C3F	3C48	3C51
HME #9	2208	3BB9	3BC2	3BCB	3BD4	3BDD	3BE6	3BEF	3BF8	3C01	3C0A	3C13	3C1C	3C25	3C2E	3C37	3C40	3C49	3C52



## Harmonics Measurement Modules -- Handle Map

(all Handles in Hex)

		Output Registers						Setup Registers	
Module Name	Module Handle	Phase #61 (NVR)	Phase #62 (NVR)	Phase #63 (NVR)	Total HD (NVR)	Total HD CAP (NVR)	Total HD IND (NVR)		Measurement Type (ENR)
HME #1	2200	3C53	3C5C	3C65	3C6E	3C77	3C80		7DE5
HME #2	2201	3C54	3C5D	3C66	3C6F	3C78	3C81		7DE6
HME #3	2202	3C55	3C5E	3C67	3C70	3C79	3C82		7DE7
HME #4	2203	3C56	3C5F	3C68	3C71	3C7A	3C83		7DE8
HME #5	2204	3C57	3C60	3C69	3C72	3C7B	3C84		7DE9
HME #6	2205	3C58	3C61	3C6A	3C73	3C7C	3C85		7DEA
HME #7	2206	3C59	3C62	3C6B	3C74	3C7D	3C86		7DEB
HME #8	2207	3C5A	3C63	3C6C	3C75	3C7E	3C87		7DEC
HME #9	2208	3C5B	3C64	3C6D	3C76	3C7F	3C88		7DED

## HiFi Modules -- Handle Map

(all Handles in Hex)

		Output Registers																		
Module Name	Module Handle	ADP A1 (BVR)	ADP A2 (BVR)	ADP A3 (BVR)	SwEvent A1 (PR)	SwEvent A2 (PR)	SwEvent A3 (PR)	SwEvent A1-A3 (PR)	LdEvent A1 (PR)	LdEvent A2 (PR)	LdEvent A3 (PR)	LdEvent A1-A3 (PR)	HIFEvent A1 (PR)	HIFEvent A2 (PR)	HIFEvent A3 (PR)	HIFEvent A1-A3 (PR)	ADPCount A1 (NVR)	ADPCount A2 (NVR)	ADPCount A3 (NVR)	InputA1 (NVR)
HiFi#1	1600	6114	6115	6116	69D8	69D9	69DA	69DB	69DC	69DD	69DE	69DF	69E0	69E1	69E2	69E3	5C06	5C07	5C08	5C09

		Output Registers									Setup Registers									
Module Name	Module Handle	RunAveA1 (NVR)	PresAveA1 (NVR)	InputA2 (NVR)	RunAveA2 (NVR)	PresAveA2 (NVR)	InputA3 (NVR)	RunAveA3 (NVR)	PresAveA3 (NVR)	Event (EVR)	AveWgCon (NBR)	MinAveThres (NBR)	ADPTThres (NBR)	IdentWinLen (NBR)	SwEvCnt (NBR)	LdEvCnt (NBR)	EvLogMd ADP (ENR)	EvLogMd Sw (ENR)	EvLogMd Ld (ENR)	EvLogMd HIF (ENR)
HiFi#1	1600	5C0A	5C0B	5C0C	5C0D	5C0E	5C0F	5C10	5C11	1100	724B	724C	724D	724E	724F	7250	7A5B	7A5C	7A5D	7A5E

## Integrator Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers			
		Result (NVR)	Rollover Count (NVR)	Trigger (DR)	Rollover (DR)	Event (EVR)	Divisor (NBR)	Int Mode(ENR)	Valu/Pulse (NBR)	RollValue (NBR)
INT #1	500	58B0	4B8E	6826	6948	1100	7104	78D8	7114	721E
INT #2	0501	58B1	4B8F	6827	6949	1100	7105	78D9	7115	721F
INT #3	0502	58B2	4B90	6828	694A	1100	7106	78DA	7116	7220
INT #4	0503	58B3	4B91	6829	694B	1100	7107	78DB	7117	7221
INT #5	0504	58B4	4B92	682A	694C	1100	7108	78DC	7118	7222
INT #6	0505	58B5	4B93	682B	694D	1100	7109	78DD	7119	7223
INT #7	0506	58B6	4B94	682C	694E	1100	710A	78DE	711A	7224
INT #8	0507	58B7	4B95	682D	694F	1100	710B	78DF	711B	7225
INT #9	0508	58B8	4B96	682E	6950	1100	710C	78E0	711C	7226
INT #10	0509	58B9	4B97	682F	6951	1100	710D	78E1	711D	7227
INT #11	050A	58BA	4B98	6830	6952	1100	710E	78E2	711E	7228
INT #12	050B	58BB	4B99	6831	6953	1100	710F	78E3	711F	7229
INT #13	050C	58BC	4B9A	6832	6954	1100	7110	78E4	7120	722A
INT #14	050D	58BD	4B9B	6833	6955	1100	7111	78E5	7121	722B
INT #15	050E	58BE	4B9C	6834	6956	1100	7112	78E6	7122	722C
INT #16	050F	58BF	4B9D	6835	6957	1100	7113	78E7	7123	722D

**Expansion: Added on Feb 17/97**

INT #17	0510	5C3B	4B9E	69E4	69F2	1100	7306	7AD7	7314	7322
INT #18	0511	5C3C	4B9F	69E5	69F3	1100	7307	7AD8	7315	7323
INT #19	0512	5C3D	4BA0	69E6	69F4	1100	7308	7AD9	7316	7324
INT #20	0513	5C3E	4BA1	69E7	69F5	1100	7309	7ADA	7317	7325

## Integrator Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers			
		Result (NVR)	Rollover Count (NVR)	Trigger (DR)	Rollover (DR)	Event (EVR)	Divisor (NBR)	Int Mode(ENR)	Valu/Pulse (NBR)	RollValue (NBR)
INT #21	0514	5C3F	4BA2	69E8	69F6	1100	730A	7ADB	7318	7326
INT #22	0515	5C40	4BA3	69E9	69F7	1100	730B	7ADC	7319	7327
INT #23	0516	5C41	4BA4	69EA	69F8	1100	730C	7ADD	731A	7328
INT #24	0517	5C42	4BA5	69EB	69F9	1100	730D	7ADE	731B	7329
INT #25	0518	5C43	4BA6	69EC	69FA	1100	730E	7ADF	731C	732A
INT #26	0519	5C44	4BA7	69ED	69FB	1100	730F	7AE0	731D	732B
INT #27	051A	5C45	4BA8	69EE	69FC	1100	7310	7AE1	731E	732C
INT #28	051B	5C46	4BA9	69EF	69FD	1100	7311	7AE2	731F	732D
INT #29	051C	5C47	4BAA	69F0	69FE	1100	7312	7AE3	7320	732E
INT #30	051D	5C48	4BAB	69F1	69FF	1100	7313	7AE4	7321	732F

### added 60 INT Modules -- Feb 99

INT #31	051E	5F9F	4BAC	6CD6	6D12	1100	764F	7C25	768B	76C7
INT #32	051F	5FA0	4BAD	6CD7	6D13	1100	7650	7C26	768C	76C8
INT #33	0520	5FA1	4BAE	6CD8	6D14	1100	7651	7C27	768D	76C9
INT #34	0521	5FA2	4BAF	6CD9	6D15	1100	7652	7C28	768E	76CA
INT #35	0522	5FA3	4BB0	6CDA	6D16	1100	7653	7C29	768F	76CB
INT #36	0523	5FA4	4BB1	6CDB	6D17	1100	7654	7C2A	7690	76CC
INT #37	0524	5FA5	4BB2	6CDC	6D18	1100	7655	7C2B	7691	76CD
INT #38	0525	5FA6	4BB3	6CDD	6D19	1100	7656	7C2C	7692	76CE
INT #39	0526	5FA7	4BB4	6CDE	6D1A	1100	7657	7C2D	7693	76CF
INT #40	0527	5FA8	4BB5	6CDF	6D1B	1100	7658	7C2E	7694	76D0

## Integrator Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers			
		Result (NVR)	Rollover Count (NVR)	Trigger (DR)	Rollover (DR)	Event (EVR)	Divisor (NBR)	Int Mode(ENR)	Valu/Pulse (NBR)	RollValue (NBR)
INT #41	0528	5FA9	4BB6	6CE0	6D1C	1100	7659	7C2F	7695	76D1
INT #42	0529	5FAA	4BB7	6CE1	6D1D	1100	765A	7C30	7696	76D2
INT #43	052A	5FAB	4BB8	6CE2	6D1E	1100	765B	7C31	7697	76D3
INT #44	052B	5FAC	4BB9	6CE3	6D1F	1100	765C	7C32	7698	76D4
INT #45	052C	5FAD	4BBA	6CE4	6D20	1100	765D	7C33	7699	76D5
INT #46	052D	5FAE	4BBB	6CE5	6D21	1100	765E	7C34	769A	76D6
INT #47	052E	5FAF	4BBC	6CE6	6D22	1100	765F	7C35	769B	76D7
INT #48	052F	5FB0	4BBD	6CE7	6D23	1100	7660	7C36	769C	76D8
INT #49	0530	5FB1	4BBE	6CE8	6D24	1100	7661	7C37	769D	76D9
INT #50	0531	5FB2	4BBF	6CE9	6D25	1100	7662	7C38	769E	76DA
INT #51	0532	5FB3	4BC0	6CEA	6D26	1100	7663	7C39	769F	76DB
INT #52	0533	5FB4	4BC1	6CEB	6D27	1100	7664	7C3A	76A0	76DC
INT #53	0534	5FB5	4BC2	6CEC	6D28	1100	7665	7C3B	76A1	76DD
INT #54	0535	5FB6	4BC3	6CED	6D29	1100	7666	7C3C	76A2	76DE
INT #55	0536	5FB7	4BC4	6CEE	6D2A	1100	7667	7C3D	76A3	76DF
INT #56	0537	5FB8	4BC5	6CEF	6D2B	1100	7668	7C3E	76A4	76E0
INT #57	0538	5FB9	4BC6	6CF0	6D2C	1100	7669	7C3F	76A5	76E1
INT #58	0539	5FBA	4BC7	6CF1	6D2D	1100	766A	7C40	76A6	76E2
INT #59	053A	5FBB	4BC8	6CF2	6D2E	1100	766B	7C41	76A7	76E3
INT #60	053B	5FBC	4BC9	6CF3	6D2F	1100	766C	7C42	76A8	76E4
INT #61	053C	5FBD	4BCA	6CF4	6D30	1100	766D	7C43	76A9	76E5
INT #62	053D	5FBE	4BCB	6CF5	6D31	1100	766E	7C44	76AA	76E6

## Integrator Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers			
		Result (NVR)	Rollover Count (NVR)	Trigger (DR)	Rollover (DR)	Event (EVR)	Divisor (NBR)	Int Mode(ENR)	Valu/Pulse (NBR)	RollValue (NBR)
INT #63	053E	5FBF	4BCC	6CF6	6D32	1100	766F	7C45	76AB	76E7
INT #64	053F	5FC0	4BCD	6CF7	6D33	1100	7670	7C46	76AC	76E8
INT #65	0540	5FC1	4BCE	6CF8	6D34	1100	7671	7C47	76AD	76E9
INT #66	0541	5FC2	4BCF	6CF9	6D35	1100	7672	7C48	76AE	76EA
INT #67	0542	5FC3	4BD0	6CFA	6D36	1100	7673	7C49	76AF	76EB
INT #68	0543	5FC4	4BD1	6CFB	6D37	1100	7674	7C4A	76B0	76EC
INT #69	0544	5FC5	4BD2	6CFC	6D38	1100	7675	7C4B	76B1	76ED
INT #70	0545	5FC6	4BD3	6CFD	6D39	1100	7676	7C4C	76B2	76EE
INT #71	0546	5FC7	4BD4	6CFE	6D3A	1100	7677	<b>7C5B</b>	76B3	76EF
INT #72	0547	5FC8	4BD5	6CFF	6D3B	1100	7678	7C5C	76B4	76F0
INT #73	0548	5FC9	4BD6	6D00	6D3C	1100	7679	7C5D	76B5	76F1
INT #74	0549	5FCA	4BD7	6D01	6D3D	1100	767A	7C5E	76B6	76F2
INT #75	054A	5FCB	4BD8	6D02	6D3E	1100	767B	7C5F	76B7	76F3
INT #76	054B	5FCC	4BD9	6D03	6D3F	1100	767C	7C60	76B8	76F4
INT #77	054C	5FCD	4BDA	6D04	6D40	1100	767D	7C61	76B9	76F5
INT #78	054D	5FCE	4BDB	6D05	6D41	1100	767E	7C62	76BA	76F6
INT #79	054E	5FCF	4BDC	6D06	6D42	1100	767F	7C63	76BB	76F7
INT #80	054F	5FD0	4BDD	6D07	6D43	1100	7680	7C64	76BC	76F8
INT #81	0550	5FD1	4BDE	6D08	6D44	1100	7681	7C65	76BD	76F9
INT #82	0551	5FD2	4BDF	6D09	6D45	1100	7682	7C66	76BE	76FA
INT #83	0552	5FD3	4BE0	6D0A	6D46	1100	7683	7C67	76BF	76FB
INT #84	0553	5FD4	4BE1	6D0B	6D47	1100	7684	7C68	76C0	76FC

## Integrator Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers			
		Result (NVR)	Rollover Count (NVR)	Trigger (DR)	Rollover (DR)	Event (EVR)	Divisor (NBR)	Int Mode(ENR)	Valu/Pulse (NBR)	RollValue (NBR)
INT #85	0554	5FD5	4BE2	6D0C	6D48	1100	7685	7C69	76C1	76FD
INT #86	0555	5FD6	4BE3	6D0D	6D49	1100	7686	7C6A	76C2	76FE
INT #87	0556	5FD7	4BE4	6D0E	6D4A	1100	7687	7C6B	76C3	76FF
INT #88	0557	5FD8	4BE5	6D0F	6D4B	1100	7688	7C6C	76C4	7700
INT #89	0558	5FD9	4BE6	6D10	6D4C	1100	7689	7C6D	76C5	7701
INT #90	0559	5FDA	4BE7	6D11	6D4D	1100	768A	7C6E	76C6	7702

added 20 - May 99

INT #91	055A	4B66	4BE8	6EEA	6EFE	1100	4064	7D11	4078	408C
INT #92	055B	4B67	4BE9	6EEB	6EFF	1100	4065	7D12	4079	408D
INT #93	055C	4B68	4BEA	6EEC	6F00	1100	4066	7D13	407A	408E
INT #94	055D	4B69	4BEB	6EED	6F01	1100	4067	7D14	407B	408F
INT #95	055E	4B6A	4BEC	6EEE	6F02	1100	4068	7D15	407C	4090
INT #96	055F	4B6B	4BED	6EEF	6F03	1100	4069	7D16	407D	4091
INT #97	0560	4B6C	4BEE	6EF0	6F04	1100	406A	7D17	407E	4092
INT #98	0561	4B6D	4BEF	6EF1	6F05	1100	406B	7D18	407F	4093
INT #99	0562	4B6E	4BF0	6EF2	6F06	1100	406C	7D19	4080	4094
INT #100	0563	4B6F	4BF1	6EF3	6F07	1100	406D	7D1A	4081	4095
INT #101	0564	4B70	4BF2	6EF4	6F08	1100	406E	7D1B	4082	4096
INT #102	0565	4B71	4BF3	6EF5	6F09	1100	406F	7D1C	4083	4097
INT #103	0566	4B72	4BF4	6EF6	6F0A	1100	4070	7D1D	4084	4098
INT #104	0567	4B73	4BF5	6EF7	6F0B	1100	4071	7D1E	4085	4099

## Integrator Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers			
		Result (NVR)	Rollover Count (NVR)	Trigger (DR)	Rollover (DR)	Event (EVR)	Divisor (NBR)	Int Mode(ENR)	Valu/Pulse (NBR)	RollValue (NBR)
INT #105	0568	4B74	4BF6	6EF8	6F0C	1100	4072	7D1F	4086	409A
INT #106	0569	4B75	4BF7	6EF9	6F0D	1100	4073	7D20	4087	409B
INT #107	056A	4B76	4BF8	6EFA	6F0E	1100	4074	7D21	4088	409C
INT #108	056B	4B77	4BF9	6EFB	6F0F	1100	4075	7D22	4089	409D
INT #109	056C	4B78	4BFA	6EFC	6F10	1100	4076	7D23	408A	409E
INT #110	056D	4B79	4BFB	6EFD	6F11	1100	4077	7D24	408B	409F



## Lonworks Export Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers		
		BindState (BVR)	Event (EVR)	SNVT (ENR)	SendDelta (NBR)	SendTime (NBR)
LWE #1	1700	6117	1100	7A5F	7251	726F
LWE #2	1701	6118	1100	7A60	7252	7270
LWE #3	1702	6119	1100	7A61	7253	7271
LWE #4	1703	611A	1100	7A62	7254	7272
LWE #5	1704	611B	1100	7A63	7255	7273
LWE #6	1705	611C	1100	7A64	7256	7274
LWE #7	1706	611D	1100	7A65	7257	7275
LWE #8	1707	611E	1100	7A66	7258	7276
LWE #9	1708	611F	1100	7A67	7259	7277
LWE #10	1709	6120	1100	7A68	725A	7278
LWE #11	170A	6121	1100	7A69	725B	7279
LWE #12	170B	6122	1100	7A6A	725C	727A
LWE #13	170C	6123	1100	7A6B	725D	727B
LWE #14	170D	6124	1100	7A6C	725E	727C
LWE #15	170E	6125	1100	7A6D	725F	727D
LWE #16	170F	6126	1100	7A6E	7260	727E
LWE #17	1710	6127	1100	7A6F	7261	727F
LWE #18	1711	6128	1100	7A70	7262	7280
LWE #19	1712	6129	1100	7A71	7263	7281
LWE #20	1713	612A	1100	7A72	7264	7282

Module Name	Module Handle	Output Registers		Setup Registers		
		BindState (BVR)	Event (EVR)	SNVT (ENR)	SendDelta (NBR)	SendTime (NBR)
LWE #21	1714	612B	1100	7A73	7265	7283
LWE #22	1715	612C	1100	7A74	7266	7284
LWE #23	1716	612D	1100	7A75	7267	7285
LWE #24	1717	612E	1100	7A76	7268	7286
LWE #25	1718	612F	1100	7A77	7269	7287
LWE #26	1719	6130	1100	7A78	726A	7288
LWE #27	171A	6131	1100	7A79	726B	7289
LWE #28	171B	6132	1100	7A7A	726C	728A
LWE #29	171C	6133	1100	7A7B	726D	728B
LWE #30	171D	6134	1100	7A7C	726E	728C

## Lonworks Import Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers	
		NetVar (NVR)	BindState (BVR)	Event (EVR)	SNVT (ENR)
LWI #1	1780	5C5D	6135	1100	7A7D
LWI #2	1781	5C5E	6136	1100	7A7E
LWI #3	1782	5C5F	6137	1100	7A7F
LWI #4	1783	5C60	6138	1100	7A80
LWI #5	1784	5C61	6139	1100	7A81
LWI #6	1785	5C62	613A	1100	7A82
LWI #7	1786	5C63	613B	1100	7A83
LWI #8	1787	5C64	613C	1100	7A84
LWI #9	1788	5C65	613D	1100	7A85
LWI #10	1789	5C66	613E	1100	7A86
LWI #11	178A	5C67	613F	1100	7A87
LWI #12	178B	5C68	6140	1100	7A88
LWI #13	178C	5C69	6141	1100	7A89
LWI #14	178D	5C6A	6142	1100	7A8A
LWI #15	178E	5C6B	6143	1100	7A8B
LWI #16	178F	5C6C	6144	1100	7A8C
LWI #17	1790	5C6D	6145	1100	7A8D
LWI #18	1791	5C6E	6146	1100	7A8E
LWI #19	1792	5C6F	6147	1100	7A8F
LWI #20	1793	5C70	6148	1100	7A90

Module Name	Module Handle	Output Registers		Setup Registers	
		NetVar (NVR)	BindState (BVR)	Event (EVR)	SNVT (ENR)
LWI #21	1794	5C71	6149	1100	7A91
LWI #22	1795	5C72	614A	1100	7A92
LWI #23	1796	5C73	614B	1100	7A93
LWI #24	1797	5C74	614C	1100	7A94
LWI #25	1798	5C75	614D	1100	7A95
LWI #26	1799	5C76	614E	1100	7A96
LWI #27	179A	5C77	614F	1100	7A97
LWI #28	179B	5C78	6150	1100	7A98
LWI #29	179C	5C79	6151	1100	7A99
LWI #30	179D	5C7A	6152	1100	7A9A

**Expansion: Added on March 11/97**

LWI #31	179E	5C7B	6153	1100	7A9B
LWI #32	179F	5C7C	6154	1100	7A9C
LWI #33	17A0	5C7D	6155	1100	7A9D
LWI #34	17A1	5C7E	6156	1100	7A9E
LWI #35	17A2	5C7F	6157	1100	7A9F
LWI #36	17A3	5C80	6158	1100	7AA0
LWI #37	17A4	5C81	6159	1100	7AA1
LWI #38	17A5	5C82	615A	1100	7AA2
LWI #39	17A6	5C83	615B	1100	7AA3
LWI #40	17A7	5C84	615C	1100	7AA4

## Lonworks Import Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers	
		NetVar (NVR)	BindState (BVR)	Event (EVR)	SNVT (ENR)
LWI #41	17A8	5C85	615D	1100	7AA5
LWI #42	17A9	5C86	615E	1100	7AA6
LWI #43	17AA	5C87	615F	1100	7AA7
LWI #44	17AB	5C88	6160	1100	7AA8
LWI #45	17AC	5C89	6161	1100	7AA9
LWI #46	17AD	5C8A	6162	1100	7AAA
LWI #47	17AE	5C8B	6163	1100	7AAB
LWI #48	17AF	5C8C	6164	1100	7AAC
LWI #49	17B0	5C8D	6165	1100	7AAD
LWI #50	17B1	5C8E	6166	1100	7AAE
LWI #51	17B2	5C8F	6167	1100	7AAF
LWI #52	17B3	5C90	6168	1100	7AB0
LWI #53	17B4	5C91	6169	1100	7AB1
LWI #54	17B5	5C92	616A	1100	7AB2
LWI #55	17B6	5C93	616B	1100	7AB3
LWI #56	17B7	5C94	616C	1100	7AB4
LWI #57	17B8	5C95	616D	1100	7AB5
LWI #58	17B9	5C96	616E	1100	7AB6
LWI #59	17BA	5C97	616F	1100	7AB7
LWI #60	17BB	5C98	6170	1100	7AB8
LWI #61	17BC	5C99	6171	1100	7AB9
LWI #62	17BD	5C9A	6172	1100	7ABA
LWI #63	17BE	5C9B	6173	1100	7ABB
LWI #64	17BF	5C9C	6174	1100	7ABC
LWI #65	17C0	5C9D	6175	1100	7ABD

Module Name	Module Handle	Output Registers		Setup Registers	
		NetVar (NVR)	BindState (BVR)	Event (EVR)	SNVT (ENR)
LWI #66	17C1	5C9E	6176	1100	7ABE
LWI #67	17C2	5C9F	6177	1100	7ABF
LWI #68	17C3	5CA0	6178	1100	7AC0
LWI #69	17C4	5CA1	6179	1100	7AC1
LWI #70	17C5	5CA2	617A	1100	7AC2
LWI #71	17C6	5CA3	617B	1100	7AC3
LWI #72	17C7	5CA4	617C	1100	7AC4
LWI #73	17C8	5CA5	617D	1100	7AC5
LWI #74	17C9	5CA6	617E	1100	7AC6
LWI #75	17CA	5CA7	617F	1100	7AC7
LWI #76	17CB	5CA8	6180	1100	7AC8
LWI #77	17CC	5CA9	6181	1100	7AC9
LWI #78	17CD	5CAA	6182	1100	7ACA
LWI #79	17CE	5CAB	6183	1100	7ACB
LWI #80	17CF	5CAC	6184	1100	7ACC
LWI #81	17D0	5CAD	6185	1100	7ACD
LWI #82	17D1	5CAE	6186	1100	7ACE
LWI #83	17D2	5CAF	6187	1100	7ACF
LWI #84	17D3	5CB0	6188	1100	7AD0
LWI #85	17D4	5CB1	6189	1100	7AD1
LWI #86	17D5	5CB2	618A	1100	7AD2
LWI #87	17D6	5CB3	618B	1100	7AD3
LWI #88	17D7	5CB4	618C	1100	7AD4
LWI #89	17D8	5CB5	618D	1100	7AD5
LWI #90	17D9	5CB6	618E	1100	7AD6

## Mains Signaling Evaluation Modules-- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers			
		Num Valid (NVR)	Num Exceeded (NVR)	Num Invalid (NVR)	Frequency (NBR)	Limit (NBR)	Event Priority (NBR)	Discard Ratio (NBR)
MSE #1	2100	4F03	4F13	4F23	40E3	40F3	4103	4113
MSE #2	2101	4F04	4F14	4F24	40E4	40F4	4104	4114
MSE #3	2102	4F05	4F15	4F25	40E5	40F5	4105	4115
MSE #4	2103	4F06	4F16	4F26	40E6	40F6	4106	4116
MSE #5	2104	4F07	4F17	4F27	40E7	40F7	4107	4117
MSE #6	2105	4F08	4F18	4F28	40E8	40F8	4108	4118
MSE #7	2106	4F09	4F19	4F29	40E9	40F9	4109	4119
MSE #8	2107	4F0A	4F1A	4F2A	40EA	40FA	410A	411A
MSE #9	2108	4F0B	4F1B	4F2B	40EB	40FB	410B	411B
MSE #10	2109	4F0C	4F1C	4F2C	40EC	40FC	410C	411C
MSE #11	210A	4F0D	4F1D	4F2D	40ED	40FD	410D	411D
MSE #12	210B	4F0E	4F1E	4F2E	40EE	40FE	410E	411E
MSE #13	210C	4F0F	4F1F	4F2F	40EF	40FF	410F	411F
MSE #14	210D	4F10	4F20	4F30	40F0	4100	4110	4120
MSE #15	210E	4F11	4F21	4F31	40F1	4101	4111	4121
MSE #16	210F	4F12	4F22	4F32	40F2	4102	4112	4122

## Maximum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #1	600	58E0	6856	1100
MAX #2	0601	58E1	6857	1100
MAX #3	0602	58E2	6858	1100
MAX #4	0603	58E3	6859	1100
MAX #5	0604	58E4	685A	1100
MAX #6	0605	58E5	685B	1100
MAX #7	0606	58E6	685C	1100
MAX #8	0607	58E7	685D	1100
MAX #9	0608	58E8	685E	1100
MAX #10	0609	58E9	685F	1100
MAX #11	060A	58EA	6860	1100
MAX #12	060B	58EB	6861	1100
MAX #13	060C	58EC	6862	1100
MAX #14	060D	58ED	6863	1100
MAX #15	060E	58EE	6864	1100
MAX #16	060F	58EF	6865	1100
MAX #17	0610	58F0	6866	1100
MAX #18	0611	58F1	6867	1100
MAX #19	0612	58F2	6868	1100
MAX #20	0613	58F3	6869	1100

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #21	0614	58F4	686A	1100
MAX #22	0615	58F5	686B	1100
MAX #23	0616	58F6	686C	1100
MAX #24	0617	58F7	686D	1100
MAX #25	0618	58F8	686E	1100
MAX #26	0619	58F9	686F	1100
MAX #27	061A	58FA	6870	1100
MAX #28	061B	58FB	6871	1100
MAX #29	061C	58FC	6872	1100
MAX #30	061D	58FD	6873	1100
MAX #31	061E	58FE	6874	1100
MAX #32	061F	58FF	6875	1100

added 28 Max modules - Nov 97

MAX #33	0620	5E26	6AD8	1100
MAX #34	0621	5E27	6AD9	1100
MAX #35	0622	5E28	6ADA	1100
MAX #36	0623	5E29	6ADB	1100
MAX #37	0624	5E2A	6ADC	1100
MAX #38	0625	5E2B	6ADD	1100
MAX #39	0626	5E2C	6ADE	1100
MAX #40	0627	5E2D	6ADF	1100

## Maximum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #41	0628	5E2E	6AE0	1100
MAX #42	0629	5E2F	6AE1	1100
MAX #43	062A	5E30	6AE2	1100
MAX #44	062B	5E31	6AE3	1100
MAX #45	062C	5E32	6AE4	1100
MAX #46	062D	5E33	6AE5	1100
MAX #47	062E	5E34	6AE6	1100
MAX #48	062F	5E35	6AE7	1100
MAX #49	0630	5E36	6AE8	1100
MAX #50	0631	5E37	6AE9	1100
MAX #51	0632	5E38	6AEA	1100
MAX #52	0633	5E39	6AEB	1100
MAX #53	0634	5E3A	6AEC	1100
MAX #54	0635	5E3B	6AED	1100
MAX #55	0636	5E3C	6AEE	1100
MAX #56	0637	5E3D	6AEF	1100
MAX #57	0638	5E3E	6AF0	1100
MAX #58	0639	5E3F	6AF1	1100
MAX #59	063A	5E40	6AF2	1100
MAX #60	063B	5E41	6AF3	1100

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)

added 140 Max modules - Feb 99

MAX #61	063C	4800	6B76	1100
MAX #62	063D	4801	6B77	1100
MAX #63	063E	4802	6B78	1100
MAX #64	063F	4803	6B79	1100
MAX #65	0640	4804	6B7A	1100
MAX #66	0641	4805	6B7B	1100
MAX #67	0642	4806	6B7C	1100
MAX #68	0643	4807	6B7D	1100
MAX #69	0644	4808	6B7E	1100
MAX #70	0645	4809	6B7F	1100
MAX #71	0646	480A	6B80	1100
MAX #72	0647	480B	6B81	1100
MAX #73	0648	480C	6B82	1100
MAX #74	0649	480D	6B83	1100
MAX #75	064A	480E	6B84	1100
MAX #76	064B	480F	6B85	1100
MAX #77	064C	4810	6B86	1100
MAX #78	064D	4811	6B87	1100
MAX #79	064E	4812	6B88	1100
MAX #80	064F	4813	6B89	1100

## Maximum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #81	0650	4814	6B8A	1100
MAX #82	0651	4815	6B8B	1100
MAX #83	0652	4816	6B8C	1100
MAX #84	0653	4817	6B8D	1100
MAX #85	0654	4818	6B8E	1100
MAX #86	0655	4819	6B8F	1100
MAX #87	0656	481A	6B90	1100
MAX #88	0657	481B	6B91	1100
MAX #89	0658	481C	6B92	1100
MAX #90	0659	481D	6B93	1100
MAX #91	065A	481E	6B94	1100
MAX #92	065B	481F	6B95	1100
MAX #93	065C	4820	6B96	1100
MAX #94	065D	4821	6B97	1100
MAX #95	065E	4822	6B98	1100
MAX #96	065F	4823	6B99	1100
MAX #97	0660	4824	6B9A	1100
MAX #98	0661	4825	6B9B	1100
MAX #99	0662	4826	6B9C	1100
MAX #100	0663	4827	6B9D	1100

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #101	0664	4828	6B9E	1100
MAX #102	0665	4829	6B9F	1100
MAX #103	0666	482A	6BA0	1100
MAX #104	0667	482B	6BA1	1100
MAX #105	0668	482C	6BA2	1100
MAX #106	0669	482D	6BA3	1100
MAX #107	066A	482E	6BA4	1100
MAX #108	066B	482F	6BA5	1100
MAX #109	066C	4830	6BA6	1100
MAX #110	066D	4831	6BA7	1100
MAX #111	066E	4832	6BA8	1100
MAX #112	066F	4833	6BA9	1100
MAX #113	0670	4834	6BAA	1100
MAX #114	0671	4835	6BAB	1100
MAX #115	0672	4836	6BAC	1100
MAX #116	0673	4837	6BAD	1100
MAX #117	0674	4838	6BAE	1100
MAX #118	0675	4839	6BAF	1100
MAX #119	0676	483A	6BB0	1100
MAX #120	0677	483B	6BB1	1100

## Maximum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #121	0678	483C	6BB2	1100
MAX #122	0679	483D	6BB3	1100
MAX #123	067A	483E	6BB4	1100
MAX #124	067B	483F	6BB5	1100
MAX #125	067C	4840	6BB6	1100
MAX #126	067D	4841	6BB7	1100
MAX #127	067E	4842	6BB8	1100
MAX #128	067F	4843	6BB9	1100
MAX #129	900	4844	6BBA	1100
MAX #130	0901	4845	6BBB	1100
MAX #131	0902	4846	6BBC	1100
MAX #132	0903	4847	6BBD	1100
MAX #133	0904	4848	6BBE	1100
MAX #134	0905	4849	6BBF	1100
MAX #135	0906	484A	6BC0	1100
MAX #136	0907	484B	6BC1	1100
MAX #137	0908	484C	6BC2	1100
MAX #138	0909	484D	6BC3	1100
MAX #139	090A	484E	6BC4	1100
MAX #140	090B	484F	6BC5	1100

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #141	090C	4850	6BC6	1100
MAX #142	090D	4851	6BC7	1100
MAX #143	090E	4852	6BC8	1100
MAX #144	090F	4853	6BC9	1100
MAX #145	0910	4854	6BCA	1100
MAX #146	0911	4855	6BCB	1100
MAX #147	0912	4856	6BCC	1100
MAX #148	0913	4857	6BCD	1100
MAX #149	0914	4858	6BCE	1100
MAX #150	0915	4859	6BCF	1100
MAX #151	0916	485A	6BD0	1100
MAX #152	0917	485B	6BD1	1100
MAX #153	0918	485C	6BD2	1100
MAX #154	0919	485D	6BD3	1100
MAX #155	091A	485E	6BD4	1100
MAX #156	091B	485F	6BD5	1100
MAX #157	091C	4860	6BD6	1100
MAX #158	091D	4861	6BD7	1100
MAX #159	091E	4862	6BD8	1100
MAX #160	091F	4863	6BD9	1100



## Maximum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #161	0920	4864	6BDA	1100
MAX #162	0921	4865	6BDB	1100
MAX #163	0922	4866	6BDC	1100
MAX #164	0923	4867	6BDD	1100
MAX #165	0924	4868	6BDE	1100
MAX #166	0925	4869	6BDF	1100
MAX #167	0926	486A	6BE0	1100
MAX #168	0927	486B	6BE1	1100
MAX #169	0928	486C	6BE2	1100
MAX #170	0929	486D	6BE3	1100
MAX #171	092A	486E	6BE4	1100
MAX #172	092B	486F	6BE5	1100
MAX #173	092C	4870	6BE6	1100
MAX #174	092D	4871	6BE7	1100
MAX #175	092E	4872	6BE8	1100
MAX #176	092F	4873	6BE9	1100
MAX #177	0930	4874	6BEA	1100
MAX #178	0931	4875	6BEB	1100
MAX #179	0932	4876	6BEC	1100
MAX #180	0933	4877	6BED	1100

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)
MAX #181	0934	4878	6BEE	1100
MAX #182	0935	4879	6BEF	1100
MAX #183	0936	487A	6BF0	1100
MAX #184	0937	487B	6BF1	1100
MAX #185	0938	487C	6BF2	1100
MAX #186	0939	487D	6BF3	1100
MAX #187	093A	487E	6BF4	1100
MAX #188	093B	487F	6BF5	1100
MAX #189	093C	4880	6BF6	1100
MAX #190	093D	4881	6BF7	1100
MAX #191	093E	4882	6BF8	1100
MAX #192	093F	4883	6BF9	1100
MAX #193	0940	4884	6BFA	1100
MAX #194	0941	4885	6BFB	1100
MAX #195	0942	4886	6BFC	1100
MAX #196	0943	4887	6BFD	1100
MAX #197	0944	4888	6BFE	1100
MAX #198	0945	4889	6BFF	1100
MAX #199	0946	488A	6C00	1100
MAX #200	0947	488B	6C01	1100

## Maximum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)

Module Name	Module Handle	Output Registers		
		Max (NVR)	Trigger (DR)	Event (EVR)

added 20 - May 99

MAX #201	0948	4B52	6ED6	1100
MAX #202	0949	4B53	6ED7	1100
MAX #203	094A	4B54	6ED8	1100
MAX #204	094B	4B55	6ED9	1100
MAX #205	094C	4B56	6EDA	1100
MAX #206	094D	4B57	6EDB	1100
MAX #207	094E	4B58	6EDC	1100
MAX #208	094F	4B59	6EDD	1100
MAX #209	0950	4B5A	6EDE	1100
MAX #210	0951	4B5B	6EDF	1100
MAX #211	0952	4B5C	6EE0	1100
MAX #212	0953	4B5D	6EE1	1100
MAX #213	0954	4B5E	6EE2	1100
MAX #214	0955	4B5F	6EE3	1100
MAX #215	0956	4B60	6EE4	1100
MAX #216	0957	4B61	6EE5	1100
MAX #217	0958	4B62	6EE6	1100
MAX #218	0959	4B63	6EE7	1100
MAX #219	095A	4B64	6EE8	1100
MAX #220	095B	4B65	6EE9	1100

## Minimum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Min (NVR)	Trigger (DR)	Event (EVR)
MIN #1	580	58C0	6836	1100
MIN #2	0581	58C1	6837	1100
MIN #3	0582	58C2	6838	1100
MIN #4	0583	58C3	6839	1100
MIN #5	0584	58C4	683A	1100
MIN #6	0585	58C5	683B	1100
MIN #7	0586	58C6	683C	1100
MIN #8	0587	58C7	683D	1100
MIN #9	0588	58C8	683E	1100
MIN #10	0589	58C9	683F	1100
MIN #11	058A	58CA	6840	1100
MIN #12	058B	58CB	6841	1100
MIN #13	058C	58CC	6842	1100
MIN #14	058D	58CD	6843	1100
MIN #15	058E	58CE	6844	1100
MIN #16	058F	58CF	6845	1100
MIN #17	0590	58D0	6846	1100
MIN #18	0591	58D1	6847	1100
MIN #19	0592	58D2	6848	1100
MIN #20	0593	58D3	6849	1100

Module Name	Module Handle	Output Registers		
		Min (NVR)	Trigger (DR)	Event (EVR)
MIN #21	0594	58D4	684A	1100
MIN #22	0595	58D5	684B	1100
MIN #23	0596	58D6	684C	1100
MIN #24	0597	58D7	684D	1100
MIN #25	0598	58D8	684E	1100
MIN #26	0599	58D9	684F	1100
MIN #27	059A	58DA	6850	1100
MIN #28	059B	58DB	6851	1100
MIN #29	059C	58DC	6852	1100
MIN #30	059D	58DD	6853	1100
MIN #31	059E	58DE	6854	1100
MIN #32	059F	58DF	6855	1100

added 28 Min modules - Nov 97

MIN #33	05A0	5E0A	6ABC	1100
MIN #34	05A1	5E0B	6ABD	1100
MIN #35	05A2	5E0C	6ABE	1100
MIN #36	05A3	5E0D	6ABF	1100
MIN #37	05A4	5E0E	6AC0	1100
MIN #38	05A5	5E0F	6AC1	1100
MIN #39	05A6	5E10	6AC2	1100
MIN #40	05A7	5E11	6AC3	1100

## Minimum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Min (NVR)	Trigger (DR)	Event (EVR)
MIN #41	05A8	5E12	6AC4	1100
MIN #42	05A9	5E13	6AC5	1100
MIN #43	05AA	5E14	6AC6	1100
MIN #44	05AB	5E15	6AC7	1100
MIN #45	05AC	5E16	6AC8	1100
MIN #46	05AD	5E17	6AC9	1100
MIN #47	05AE	5E18	6ACA	1100
MIN #48	05AF	5E19	6ACB	1100
MIN #49	05B0	5E1A	6ACC	1100
MIN #50	05B1	5E1B	6ACD	1100
MIN #51	05B2	5E1C	6ACE	1100
MIN #52	05B3	5E1D	6ACF	1100
MIN #53	05B4	5E1E	6AD0	1100
MIN #54	05B5	5E1F	6AD1	1100
MIN #55	05B6	5E20	6AD2	1100
MIN #56	05B7	5E21	6AD3	1100
MIN #57	05B8	5E22	6AD4	1100
MIN #58	05B9	5E23	6AD5	1100
MIN #59	05BA	5E24	6AD6	1100
MIN #60	05BB	5E25	6AD7	1100

Module Name	Module Handle	Output Registers		
		Min (NVR)	Trigger (DR)	Event (EVR)

added 30 Min modules - May 99

MIN #61	05BC	5F81	6B58	1100
MIN #62	05BD	5F82	6B59	1100
MIN #63	05BE	5F83	6B5A	1100
MIN #64	05BF	5F84	6B5B	1100
MIN #65	05C0	5F85	6B5C	1100
MIN #66	05C1	5F86	6B5D	1100
MIN #67	05C2	5F87	6B5E	1100
MIN #68	05C3	5F88	6B5F	1100
MIN #69	05C4	5F89	6B60	1100
MIN #70	05C5	5F8A	6B61	1100
MIN #71	05C6	5F8B	6B62	1100
MIN #72	05C7	5F8C	6B63	1100
MIN #73	05C8	5F8D	6B64	1100
MIN #74	05C9	5F8E	6B65	1100
MIN #75	05CA	5F8F	6B66	1100
MIN #76	05CB	5F90	6B67	1100
MIN #77	05CC	5F91	6B68	1100
MIN #78	05CD	5F92	6B69	1100
MIN #79	05CE	5F93	6B6A	1100
MIN #80	05CF	5F94	6B6B	1100

## Minimum Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		
		Min (NVR)	Trigger (DR)	Event (EVR)

MIN #81	05D0	5F95	6B6C	1100
MIN #82	05D1	5F96	6B6D	1100
MIN #83	05D2	5F97	6B6E	1100
MIN #84	05D3	5F98	6B6F	1100
MIN #85	05D4	5F99	6B70	1100
MIN #86	05D5	5F9A	6B71	1100
MIN #87	05D6	5F9B	6B72	1100
MIN #88	05D7	5F9C	6B73	1100
MIN #89	05D8	5F9D	6B74	1100
MIN #90	05D9	5F9E	6B75	1100

Module Name	Module Handle	Output Registers		
		Min (NVR)	Trigger (DR)	Event (EVR)

## Modbus Slave Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers																	
		ModVal #1 (NVR)	ModVal #2 (NVR)	ModVal #3 (NVR)	ModVal #4 (NVR)	ModVal #5 (NVR)	ModVal #6 (NVR)	ModVal #7 (NVR)	ModVal #8 (NVR)	ModVal #9 (NVR)	ModVal #10 (NVR)	ModVal #11 (NVR)	ModVal #12 (NVR)	ModVal #13 (NVR)	ModVal #14 (NVR)	ModVal #15 (NVR)	ModVal #16 (NVR)	ModVal #17 (NVR)	ModVal #18 (NVR)
MS#1	1680	5B7E	5B82	5B86	5B8A	5B8E	5B92	5B96	5B9A	5B9E	5BA2	5BA6	5BAA	5BAE	5BB2	5BB6	5BBA	5BBE	5BC2
MS#2	1681	5B7F	5B83	5B87	5B8B	5B8F	5B93	5B97	5B9B	5B9F	5BA3	5BA7	5BAB	5BAF	5BB3	5BB7	5BBB	5BBF	5BC3
MS#3	1682	5B80	5B84	5B88	5B8C	5B90	5B94	5B98	5B9C	5BA0	5BA4	5BA8	5BAC	5BB0	5BB4	5BB8	5BBC	5BC0	5BC4
MS#4	1683	5B81	5B85	5B89	5B8D	5B91	5B95	5B99	5B9D	5BA1	5BA5	5BA9	5BAD	5BB1	5BB5	5BB9	5BBD	5BC1	5BC5
MS#5	1684	49A6	49AC	49B2	49B8	49BE	49C4	49CA	49D0	49D6	49DC	49E2	49E8	49EE	49F4	49FA	4A00	4A06	4A0C
MS#6	1685	49A7	49AD	49B3	49B9	49BF	49C5	49CB	49D1	49D7	49DD	49E3	49E9	49EF	49F5	49FB	4A01	4A07	4A0D
MS#7	1686	49A8	49AE	49B4	49BA	49C0	49C6	49CC	49D2	49D8	49DE	49E4	49EA	49F0	49F6	49FC	4A02	4A08	4A0E
MS#8	1687	49A9	49AF	49B5	49BB	49C1	49C7	49CD	49D3	49D9	49DF	49E5	49EB	49F1	49F7	49FD	4A03	4A09	4A0F
MS#9	1688	49AA	49B0	49B6	49BC	49C2	49C8	49CE	49D4	49DA	49E0	49E6	49EC	49F2	49F8	49FE	4A04	4A0A	4A10
MS#10	1689	49AB	49B1	49B7	49BD	49C3	49C9	49CF	49D5	49DB	49E1	49E7	49ED	49F3	49F9	49FF	4A05	4A0B	4A11

10 Modbus Slave Modules added MET May 5, 2000

MS#11	168A	3D29	3D33	3D3D	3D47	3D51	3D5B	3D65	3D6F	3D79	3D83	3D8D	3D97	3DA1	3DAB	3DB5	3DBF	3DC9	3DD3
MS#12	168B	3D2A	3D34	3D3E	3D48	3D52	3D5C	3D66	3D70	3D7A	3D84	3D8E	3D98	3DA2	3DAC	3DB6	3DC0	3DCA	3DD4
MS#13	168C	3D2B	3D35	3D3F	3D49	3D53	3D5D	3D67	3D71	3D7B	3D85	3D8F	3D99	3DA3	3DAD	3DB7	3DC1	3DCB	3DD5
MS#14	168D	3D2C	3D36	3D40	3D4A	3D54	3D5E	3D68	3D72	3D7C	3D86	3D90	3D9A	3DA4	3DAE	3DB8	3DC2	3DCC	3DD6
MS#15	168E	3D2D	3D37	3D41	3D4B	3D55	3D5F	3D69	3D73	3D7D	3D87	3D91	3D9B	3DA5	3DAF	3DB9	3DC3	3DCD	3DD7
MS#16	168F	3D2E	3D38	3D42	3D4C	3D56	3D60	3D6A	3D74	3D7E	3D88	3D92	3D9C	3DA6	3DB0	3DBA	3DC4	3DCE	3DD8
MS#17	1690	3D2F	3D39	3D43	3D4D	3D57	3D61	3D6B	3D75	3D7F	3D89	3D93	3D9D	3DA7	3DB1	3DBB	3DC5	3DCF	3DD9
MS#18	1691	3D30	3D3A	3D44	3D4E	3D58	3D62	3D6C	3D76	3D80	3D8A	3D94	3D9E	3DA8	3DB2	3DBC	3DC6	3DD0	3DDA
MS#19	1692	3D31	3D3B	3D45	3D4F	3D59	3D63	3D6D	3D77	3D81	3D8B	3D95	3D9F	3DA9	3DB3	3DBD	3DC7	3DD1	3DDB
MS#20	1693	3D32	3D3C	3D46	3D50	3D5A	3D64	3D6E	3D78	3D82	3D8C	3D96	3DA0	3DAA	3DB4	3DBE	3DC8	3DD2	3DDC

## Modbus Slave Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers																Event (EVR)
		ModVal #19 (NVR)	ModVal #20 (NVR)	ModVal #21 (NVR)	ModVal #22 (NVR)	ModVal #23 (NVR)	ModVal #24 (NVR)	ModVal #25 (NVR)	ModVal #26 (NVR)	ModVal #27 (NVR)	ModVal #28 (NVR)	ModVal #29 (NVR)	ModVal #30 (NVR)	ModVal #31 (NVR)	ModVal #32 (NVR)	ModBase (NVR)	ModLink (NVR)	
MS#1	1680	5BC6	5BCA	5BCE	5BD2	5BD6	5BDA	5BDE	5BE2	5BE6	5BEA	5BEE	5BF2	5BF6	5BFA	5BFE	5C02	1100
MS#2	1681	5BC7	5BCB	5BCF	5BD3	5BD7	5BDB	5BDF	5BE3	5BE7	5BEB	5BEF	5BF3	5BF7	5BFB	5BFF	5C03	1100
MS#3	1682	5BC8	5BCC	5BD0	5BD4	5BD8	5BDC	5BE0	5BE4	5BE8	5BEC	5BF0	5BF4	5BF8	5BFC	5C00	5C04	1100
MS#4	1683	5BC9	5BCD	5BD1	5BD5	5BD9	5BDD	5BE1	5BE5	5BE9	5BED	5BF1	5BF5	5BF9	5BFD	5C01	5C05	1100
MS#5	1684	4A12	4A18	4A1E	4A24	4A2A	4A30	4A36	4A3C	4A42	4A48	4A4E	4A54	4A5A	4A60	4A66	4A6C	1100
MS#6	1685	4A13	4A19	4A1F	4A25	4A2B	4A31	4A37	4A3D	4A43	4A49	4A4F	4A55	4A5B	4A61	4A67	4A6D	1100
MS#7	1686	4A14	4A1A	4A20	4A26	4A2C	4A32	4A38	4A3E	4A44	4A4A	4A50	4A56	4A5C	4A62	4A68	4A6E	1100
MS#8	1687	4A15	4A1B	4A21	4A27	4A2D	4A33	4A39	4A3F	4A45	4A4B	4A51	4A57	4A5D	4A63	4A69	4A6F	1100
MS#9	1688	4A16	4A1C	4A22	4A28	4A2E	4A34	4A3A	4A40	4A46	4A4C	4A52	4A58	4A5E	4A64	4A6A	4A70	1100
MS#10	1689	4A17	4A1D	4A23	4A29	4A2F	4A35	4A3B	4A41	4A47	4A4D	4A53	4A59	4A5F	4A65	4A6B	4A71	1100

10 Modbus Slave Modules added MET May 5, 2000

MS#11	168A	3DDD	3DE7	3DF1	3DFB	3E05	3E0F	3E19	3E23	3E2D	3E37	3E41	3E4B	3E55	3E5F	3E69	3E73	1100
MS#12	168B	3DDE	3DE8	3DF2	3DFC	3E06	3E10	3E1A	3E24	3E2E	3E38	3E42	3E4C	3E56	3E60	3E6A	3E74	1100
MS#13	168C	3DDF	3DE9	3DF3	3DFD	3E07	3E11	3E1B	3E25	3E2F	3E39	3E43	3E4D	3E57	3E61	3E6B	3E75	1100
MS#14	168D	3DE0	3DEA	3DF4	3DFE	3E08	3E12	3E1C	3E26	3E30	3E3A	3E44	3E4E	3E58	3E62	3E6C	3E76	1100
MS#15	168E	3DE1	3DEB	3DF5	3DFF	3E09	3E13	3E1D	3E27	3E31	3E3B	3E45	3E4F	3E59	3E63	3E6D	3E77	1100
MS#16	168F	3DE2	3DEC	3DF6	3E00	3E0A	3E14	3E1E	3E28	3E32	3E3C	3E46	3E50	3E5A	3E64	3E6E	3E78	1100
MS#17	1690	3DE3	3DED	3DF7	3E01	3E0B	3E15	3E1F	3E29	3E33	3E3D	3E47	3E51	3E5B	3E65	3E6F	3E79	1100
MS#18	1691	3DE4	3DEE	3DF8	3E02	3E0C	3E16	3E20	3E2A	3E34	3E3E	3E48	3E52	3E5C	3E66	3E70	3E7A	1100
MS#19	1692	3DE5	3DEF	3DF9	3E03	3E0D	3E17	3E21	3E2B	3E35	3E3F	3E49	3E53	3E5D	3E67	3E71	3E7B	1100
MS#20	1693	3DE6	3DF0	3DFA	3E04	3E0E	3E18	3E22	3E2C	3E36	3E40	3E4A	3E54	3E5E	3E68	3E72	3E7C	1100

## Modbus Slave Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Setup Registers						
		Format (ENR)	BaseAddr (NBR)	Scaling (ENR)	InZero (NBR)	InFull (NBR)	OutZero (NBR)	OutFull (NBR)
MS#1	1680	7A53	7237	7A57	723B	723F	7243	7247
MS#2	1681	7A54	7238	7A58	723C	7240	7244	7248
MS#3	1682	7A55	7239	7A59	723D	7241	7245	7249
MS#4	1683	7A56	723A	7A5A	723E	7242	7246	724A
MS#5	1684	7CAB	77A5	7CB1	77AB	77B1	77B7	77BD
MS#6	1685	7CAC	77A6	7CB2	77AC	77B2	77B8	77BE
MS#7	1686	7CAD	77A7	7CB3	77AD	77B3	77B9	77BF
MS#8	1687	7CAE	77A8	7CB4	77AE	77B4	77BA	77C0
MS#9	1688	7CAF	77A9	7CB5	77AF	77B5	77BB	77C1
MS#10	1689	7CB0	77AA	7CB6	77B0	77B6	77BC	77C2

10 Modbus Slave Modules added MET May 5, 2000

MS#11	168A	7E51	4270	7E5B	427A	4284	428E	4298
MS#12	168B	7E52	4271	7E5C	427B	4285	428F	4299
MS#13	168C	7E53	4272	7E5D	427C	4286	4290	429A
MS#14	168D	7E54	4273	7E5E	427D	4287	4291	429B
MS#15	168E	7E55	4274	7E5F	427E	4288	4292	429C
MS#16	168F	7E56	4275	7E60	427F	4289	4293	429D
MS#17	1690	7E57	4276	7E61	4280	428A	4294	429E
MS#18	1691	7E58	4277	7E62	4281	428B	4295	429F
MS#19	1692	7E59	4278	7E63	4282	428C	4296	42A0
MS#20	1693	7E5A	4279	7E64	4283	428D	4297	42A1



## One-Shot Timer Modules

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Register
		State (BVR)	Trigger (PR)	Event (EVR)	Period (NBR)
OST #1	0A00	607B	68A2	1100	71D0
OST #2	0A01	607C	68A3	1100	71D1
OST #3	0A02	607D	68A4	1100	71D2
OST #4	0A03	607E	68A5	1100	71D3
OST #5	0A04	607F	68A6	1100	71D4
OST #6	0A05	6080	68A7	1100	71D5
OST #7	0A06	6081	68A8	1100	71D6
OST #8	0A07	6082	68A9	1100	71D7
OST #9	0A08	6083	68AA	1100	71D8
OST #10	0A09	6084	68AB	1100	71D9
OST #11	0A0A	6085	68AC	1100	71DA
OST #12	0A0B	6086	68AD	1100	71DB

**added 8 - May 99**

OST #13	0A0C	62A6	6EBA	1100	77C3
OST #14	0A0D	62A7	6EBB	1100	77C4
OST #15	0A0E	62A8	6EBC	1100	77C5
OST #16	0A0F	62A9	6EBD	1100	77C6
OST #17	0A10	62AA	6EBE	1100	77C7
OST #18	0A11	62AB	6EBF	1100	77C8
OST #19	0A12	62AC	6EC0	1100	77C9
OST #20	0A13	62AD	6EC1	1100	77CA

## Periodic Timer Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers	
		Trigger (DR)	Event (EVR)	Period (NBR)	Sync Mode (ENR)
PRT #1	980	688E	1100	71BC	7958
PRT #2	0981	688F	1100	71BD	7959
PRT #3	0982	6890	1100	71BE	795A
PRT #4	0983	6891	1100	71BF	795B
PRT #5	0984	6892	1100	71C0	795C
PRT #6	0985	6893	1100	71C1	795D
PRT #7	0986	6894	1100	71C2	795E
PRT #8	0987	6895	1100	71C3	795F
PRT #9	0988	6896	1100	71C4	7960
PRT #10	0989	6897	1100	71C5	7961
PRT #11	098A	6898	1100	71C6	7962
PRT #12	098B	6899	1100	71C7	7963
PRT #13	098C	689A	1100	71C8	7964
PRT #14	098D	689B	1100	71C9	7965
PRT #15	098E	689C	1100	71CA	7966
PRT #16	098F	689D	1100	71CB	7967
PRT #17	0990	689E	1100	71CC	7968
PRT #18	0991	689F	1100	71CD	7969
PRT #19	0992	68A0	1100	71CE	796A
PRT #20	0993	68A1	1100	71CF	796B

## Power Harmonic Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	V1 (NVR)	V2 (NVR)	V3 (NVR)	I1 (NVR)	I2 (NVR)	I3 (NVR)	KW1 (NVR)	KW2 (NVR)	KW3 (NVR)	KW TOTAL (NVR)	KVAR1 (NVR)	KVAR2 (NVR)	KVAR3 (NVR)	KVAR TOTAL (NVR)	KVA1 (NVR)	KVA2 (NVR)	KVA3 (NVR)	KVA TOTAL (NVR)
PWH#1	1B80	5CF4	5CF9	5CFE	5D03	5D08	5D0D	5D12	5D17	5D1C	5D21	5D26	5D2B	5D30	5D35	5D3A	5D3F	5D44	5D49
PWH#2	1B81	5CF5	5CFA	5CFF	5D04	5D09	5D0E	5D13	5D18	5D1D	5D22	5D27	5D2C	5D31	5D36	5D3B	5D40	5D45	5D4A
PWH#3	1B82	5CF6	5CFB	5D00	5D05	5D0A	5D0F	5D14	5D19	5D1E	5D23	5D28	5D2D	5D32	5D37	5D3C	5D41	5D46	5D4B
PWH#4	1B83	5CF7	5CFC	5D01	5D06	5D0B	5D10	5D15	5D1A	5D1F	5D24	5D29	5D2E	5D33	5D38	5D3D	5D42	5D47	5D4C
PWH#5	1B84	5CF8	5CFD	5D02	5D07	5D0C	5D11	5D16	5D1B	5D20	5D25	5D2A	5D2F	5D34	5D39	5D3E	5D43	5D48	5D4D

		Output Registers										Setup Register	
Module Name	Module Handle	V1 Angle (NVR)	V2 Angle (NVR)	V3 Angle (NVR)	I1 Angle (NVR)	I2 Angle (NVR)	I3 Angle (NVR)	Phase Angle 1 (NVR)	Phase Angle 2 (NVR)	Phase Angle 3 (NVR)	Event (EVR)	Harm Number (NBR)	
PWH#1	1B80	5D4E	5D53	5D58	5D5D	5D62	5D67	5D6C	5D71	5D76	1100	743C	
PWH#2	1B81	5D4F	5D54	5D59	5D5E	5D63	5D68	5D6D	5D72	5D77	1100	743D	
PWH#3	1B82	5D50	5D55	5D5A	5D5F	5D64	5D69	5D6E	5D73	5D78	1100	743E	
PWH#4	1B83	5D51	5D56	5D5B	5D60	5D65	5D6A	5D6F	5D74	5D79	1100	743F	
PWH#5	1B84	5D52	5D57	5D5C	5D61	5D66	5D6B	5D70	5D75	5D7A	1100	7440	

## Power Meter Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	Va (NVR)	Vb (NVR)	Vc (NVR)	Vlave (NVR)	Vab (NVR)	Vbc (NVR)	Vca (NVR)	Vlave (NVR)	Ia (NVR)	Ib (NVR)	Ic (NVR)	Iave (NVR)	KWa (NVR)	KWb (NVR)	KWc (NVR)	KW total (NVR)	KVARa (NVR)	KVARb (NVR)
1S PM	100	5800	5801	5802	5803	5804	5805	5806	5807	5808	5809	580A	580B	580C	580D	580E	580F	5810	5811
HS PM	0102	5828	5829	582A	582B	582C	582D	582E	582F	5830	5831	5832	5833	5834	5835	5836	5837	5838	5839
MV PM	0101	5B23	5B24	5B25	5B26	5B27	5B28	5B29	5B2A	5B2B	5B2C	5B2D	5B2E	5B2F	5B30	5B31	5B32	5B33	5B34

		Output Registers																	
Module Name	Module Handle	KVARc (NVR)	KVAR total (NVR)	KVAa (NVR)	KVAb (NVR)	KVAc (NVR)	KVA total (NVR)	Quadrant 1 (BVR)	Quadrant 2 (BVR)	Quadrant 3 (BVR)	Quadrant 4 (BVR)	PFSIGNa (NVR)	PFSIGNb (NVR)	PFSIGNc (NVR)	PFSIGN total (NVR)	PFLEADa (NVR)	PFLEADb (NVR)	PFLEADc (NVR)	PFLEAD total (NVR)
1S PM	100	5812	5813	5814	5815	5816	5817	61FB	61FC	61FD	61FE	5818	5819	581A	581B	581C	581D	581E	581F
HS PM	0102	583A	583B	583C	583D	583E	583F	N/A	N/A	N/A	N/A	5840	5841	5842	5843	5844	5845	5846	5847
MV PM	0101	5B35	5B36	5B37	5B38	5B39	5B3A	61FB	61FC	61FD	61FE	5818	5819	581A	581B	581C	581D	581E	581F

## Power Meter Modules -- Handle Map

(all Handles in Hex)

		Output Registers												
Module Name	Module Handle	PFLAGa (NVR)	PFLAGb (NVR)	PFLAGc (NVR)	PFLAG total (NVR)	Vunbal (NVR)	Iunbal (NVR)	I4 (NVR)	Iresidual (NVR)	V4 (NVR)	I5 (NVR)	PhaseRev (BVR)	LineFreq (NVR)	Event (EVR)
1S PM	100	5820	5821	5822	5823	5824	5825	5826	N/A	5E4E	5E4F	6000	5827	1100
HS PM	0102	5848	5849	584A	584B	584C	584D	584E	N/A	5E50	5E51	N/A	584F	1100
MV PM	0101	5820	5821	5822	5823	5824	5825	5B3B	N/A	5E52	5E53	6000	5827	1100

		Setup Registers																	
Module Name	Module Handle	Vmode (ENR)	PT Pri Volts (NBR)	PT Sec Volts (NBR)	CT Pri I (NBR)	CT Sec I (NBR)	V4 PT Pri (NBR)	V4 PT Sec (NBR)	I4 CT Pri I (NBR)	I4 CT Sec I (NBR)	I5 CT Pri (NBR)	I5 CT Sec (NBR)	NomSysVolts (ENR)	V1 Polarity (ENR)	V2 Polarity (ENR)	V3 Polarity (ENR)	V4 Polarity (ENR)	I1 Polarity (ENR)	I2 Polarity (ENR)
1S PM	100	7800	7000	7001	7002	7003	75AB	75AC	7004	7005	75AD	75AE	75AA	7A4A	7A4B	7A4C	7C12	7801	7802
HS PM	0102	7800	7000	7001	7002	7003	75AB	75AC	7004	7005	75AD	75AE	75AA	7A4A	7A4B	7A4C	7C12	7801	7802
MV PM	0101	7800	7000	7001	7002	7003	75AB	75AC	7004	7005	75AD	75AE	75AA	7A4A	7A4B	7A4C	7C12	7801	7802

## Power Meter Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Setup Registers					
		I3 Polarity (ENR)	I4 Polarity (ENR)	I5 Polarity (ENR)	Phase Order (ENR)	Norm Freq (ENR)	Phase Labels (ENR)
1S PM	100	7803	7A49	7C13	7804	N/A	7805
HS PM	0102	7803	7A49	7C13	7804	N/A	7805
MV PM	0101	7803	7A49	7C13	7804	N/A	7805

## Profibus Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers							Setup Registers				
		Value1 (NVR)	Value2 (NVR)	Value3 (NVR)	Value4 (NVR)	Value5 (NVR)	Value6 (NVR)	Event (EVR)	Scaling (ENR)	IONZero (NBR)	IONFull (NBR)	ProfiZero (NBR)	ProfiFull (NBR)
Profibus #1	1C80	5D8F	5D9B	5DA7	5DB3	5DBF	5DCB	1100	7BAB	747D	7489	7495	74A1
Profibus #2	1C81	5D90	5D9C	5DA8	5DB4	5DC0	5DCC	1100	7BAC	747E	748A	7496	74A2
Profibus #3	1C82	5D91	5D9D	5DA9	5DB5	5DC1	5DCD	1100	7BAD	747F	748B	7497	74A3
Profibus #4	1C83	5D92	5D9E	5DAA	5DB6	5DC2	5DCE	1100	7BAE	7480	748C	7498	74A4
Profibus #5	1C84	5D93	5D9F	5DAB	5DB7	5DC3	5DCF	1100	7BAF	7481	748D	7499	74A5
Profibus #6	1C85	5D94	5DA0	5DAC	5DB8	5DC4	5DD0	1100	7BB0	7482	748E	749A	74A6
Profibus #7	1C86	5D95	5DA1	5DAD	5DB9	5DC5	5DD1	1100	7BB1	7483	748F	749B	74A7
Profibus #8	1C87	5D96	5DA2	5DAE	5DBA	5DC6	5DD2	1100	7BB2	7484	7490	749C	74A8
Profibus #9	1C88	5D97	5DA3	5DAF	5DBB	5DC7	5DD3	1100	7BB3	7485	7491	749D	74A9
Profibus #10	1C89	5D98	5DA4	5DB0	5DBC	5DC8	5DD4	1100	7BB4	7486	7492	749E	74AA
Profibus #11	1C8A	5D99	5DA5	5DB1	5DBD	5DC9	5DD5	1100	7BB5	7487	7493	749F	74AB
Profibus #12	1C8B	5D9A	5DA6	5DB2	5DBE	5DCA	5DD6	1100	7BB6	7488	7494	74A0	74AC

## Pulse Merge Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Register
		PulseOut (DR)	Event (EVR)	Event Log Mode (ENR)
PMG #1	1280	6936	1100	7A3D
PMG #2	1281	6937	1100	7A3E
PMG #3	1282	6938	1100	7A3F
PMG #4	1283	6939	1100	7A40
PMG #5	1284	693A	1100	7A41
PMG #6	1285	693B	1100	7A42
PMG #7	1286	693C	1100	7A43
PMG #8	1287	693D	1100	7A44

added 12 PMG -- Sept 1998

PMG #9	1288	6C02	1100	7C4F
PMG #10	1289	6C03	1100	7C50
PMG #11	128A	6C04	1100	7C51
PMG #12	128B	6C05	1100	7C52
PMG #13	128C	6C06	1100	7C53
PMG #14	128D	6C07	1100	7C54
PMG #15	128E	6C08	1100	7C55
PMG #16	128F	6C09	1100	7C56
PMG #17	1290	6C0A	1100	7C57
PMG #18	1291	6C0B	1100	7C58
PMG #19	1292	6C0C	1100	7C59
PMG #20	1293	6C0D	1100	7C5A

Module Name	Module Handle	Output Registers		Setup Register
		PulseOut (DR)	Event (EVR)	Event Log Mode (ENR)

added - May 99

PMG #21	1294	6E9C	1100	7CF3
PMG #22	1295	6E9D	1100	7CF4
PMG #23	1296	6E9E	1100	7CF5
PMG #24	1297	6E9F	1100	7CF6
PMG #25	1298	6EA0	1100	7CF7
PMG #26	1299	6EA1	1100	7CF8
PMG #27	129A	6EA2	1100	7CF9
PMG #28	129B	6EA3	1100	7CFA
PMG #29	129C	6EA4	1100	7CFB
PMG #30	129D	6EA5	1100	7CFC
PMG #31	129E	6EA6	1100	7CFD
PMG #32	129F	6EA7	1100	7CFE
PMG #33	12A0	6EA8	1100	7CFF
PMG #34	12A1	6EA9	1100	7D00
PMG #35	12A2	6EAA	1100	7D01
PMG #36	12A3	6EAB	1100	7D02
PMG #37	12A4	6EAC	1100	7D03
PMG #38	12A5	6EAD	1100	7D04
PMG #39	12A6	6EAE	1100	7D05
PMG #40	12A7	6EAF	1100	7D06



## Pulse Merge Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Register
		PulseOut (DR)	Event (EVR)	Event Log Mode (ENR)
PMG #41	12A8	6EB0	1100	7D07
PMG #42	12A9	6EB1	1100	7D08
PMG #43	12AA	6EB2	1100	7D09
PMG #44	12AB	6EB3	1100	7D0A
PMG #45	12AC	6EB4	1100	7D0B
PMG #46	12AD	6EB5	1100	7D0C
PMG #47	12AE	6EB6	1100	7D0D
PMG #48	12AF	6EB7	1100	7D0E
PMG #49	12B0	6EB8	1100	7D0F
PMG #50	12B1	6EB9	1100	7D10

Module Name	Module Handle	Output Registers		Setup Register
		PulseOut (DR)	Event (EVR)	Event Log Mode (ENR)

## Pulser Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Register	Setup Registers			
		Event (EVR)	Pulse Width (NBR)	Output Mode (ENR)	Output Polarity (ENR)	Port (ENR)
PUL #1	380	1100	70AA	78B4	78BE	7A01
PUL #2	0381	1100	70AB	78B5	78BF	7A02
PUL #3	0382	1100	70AC	78B6	78C0	7A03
PUL #4	0383	1100	70AD	78B7	78C1	7A04
PUL #5	0384	1100	70AE	78B8	78C2	7A05
PUL #6	0385	1100	70AF	78B9	78C3	7A06
PUL #7	0386	1100	70B0	78BA	78C4	7A07
PUL #8	0387	1100	70B1	78BB	78C5	7A08
PUL #9	0388	1100	70B2	78BC	78C6	7A09
PUL #10	0389	1100	70B3	78BD	78C7	7A0A

## Relative Setpoint Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers							
		Status (BR)	Over (BR)	Under (BR)	Trigger (PR)	Event (EVR)	Eval Mode (ENR)	Over Pickup (NBR)	Over Dropout (NBR)	Under Pickup (NBR)	Under Dropout (NBR)	SusUntION (NBR)	SusUntIOFF (NBR)	Event Priority (NBR)
RS #1	1B00	61DD	61E7	61F1	6A76	1100	7BA1	73F6	7400	740A	7414	741E	7428	7432
RS #2	1B01	61DE	61E8	61F2	6A77	1100	7BA2	73F7	7401	740B	7415	741F	7429	7433
RS #3	1B02	61DF	61E9	61F3	6A78	1100	7BA3	73F8	7402	740C	7416	7420	742A	7434
RS #4	1B03	61E0	61EA	61F4	6A79	1100	7BA4	73F9	7403	740D	7417	7421	742B	7435
RS #5	1B04	61E1	61EB	61F5	6A7A	1100	7BA5	73FA	7404	740E	7418	7422	742C	7436
RS #6	1B05	61E2	61EC	61F6	6A7B	1100	7BA6	73FB	7405	740F	7419	7423	742D	7437
RS #7	1B06	61E3	61ED	61F7	6A7C	1100	7BA7	73FC	7406	7410	741A	7424	742E	7438
RS #8	1B07	61E4	61EE	61F8	6A7D	1100	7BA8	73FD	7407	7411	741B	7425	742F	7439
RS #9	1B08	61E5	61EF	61F9	6A7E	1100	7BA9	73FE	7408	7412	741C	7426	7430	743A
RS #10	1B09	61E6	61F0	61FA	6A7F	1100	7BAA	73FF	7409	7413	741D	7427	7431	743B

20 Relative Setpoint Modules Added April 18, 2000

RS #11	1B0A	635A	636E	6382	6F84	1100	7E3D	418F	41A3	41B7	41CB	41DF	41F3	4207
RS #12	1B0B	635B	636F	6383	6F85	1100	7E3E	4190	41A4	41B8	41CC	41E0	41F4	4208
RS #13	1B0C	635C	6370	6384	6F86	1100	7E3F	4191	41A5	41B9	41CD	41E1	41F5	4209
RS #14	1B0D	635D	6371	6385	6F87	1100	7E40	4192	41A6	41BA	41CE	41E2	41F6	420A
RS #15	1B0E	635E	6372	6386	6F88	1100	7E41	4193	41A7	41BB	41CF	41E3	41F7	420B
RS #16	1B0F	635F	6373	6387	6F89	1100	7E42	4194	41A8	41BC	41D0	41E4	41F8	420C
RS #17	1B10	6360	6374	6388	6F8A	1100	7E43	4195	41A9	41BD	41D1	41E5	41F9	420D
RS #18	1B11	6361	6375	6389	6F8B	1100	7E44	4196	41AA	41BE	41D2	41E6	41FA	420E
RS #19	1B12	6362	6376	638A	6F8C	1100	7E45	4197	41AB	41BF	41D3	41E7	41FB	420F
RS #20	1B13	6363	6377	638B	6F8D	1100	7E46	4198	41AC	41C0	41D4	41E8	41FC	4210

## Relative Setpoint Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers							
		Status (BR)	Over (BR)	Under (BR)	Trigger (PR)	Event (EVR)	Eval Mode (ENR)	Over Pickup (NBR)	Over Dropout (NBR)	Under Pickup (NBR)	Under Dropout (NBR)	SusUntION (NBR)	SusUntIOFF (NBR)	Event Priority (NBR)
RS #21	1B14	6364	6378	638C	6F8E	1100	7E47	4199	41AD	41C1	41D5	41E9	41FD	4211
RS #22	1B15	6365	6379	638D	6F8F	1100	7E48	419A	41AE	41C2	41D6	41EA	41FE	4212
RS #23	1B16	6366	637A	638E	6F90	1100	7E49	419B	41AF	41C3	41D7	41EB	41FF	4213
RS #24	1B17	6367	637B	638F	6F91	1100	7E4A	419C	41B0	41C4	41D8	41EC	4200	4214
RS #25	1B18	6368	637C	6390	6F92	1100	7E4B	419D	41B1	41C5	41D9	41ED	4201	4215
RS #26	1B19	6369	637D	6391	6F93	1100	7E4C	419E	41B2	41C6	41DA	41EE	4202	4216
RS #27	1B1A	636A	637E	6392	6F94	1100	7E4D	419F	41B3	41C7	41DB	41EF	4203	4217
RS #28	1B1B	636B	637F	6393	6F95	1100	7E4E	41A0	41B4	41C8	41DC	41F0	4204	4218
RS #29	1B1C	636C	6380	6394	6F96	1100	7E4F	41A1	41B5	41C9	41DD	41F1	4205	4219
RS #30	1B1D	636D	6381	6395	6F97	1100	7E50	41A2	41B6	41CA	41DE	41F2	4206	421A

## Sag Swell Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	Dist State (BVR)	Dist Start (PR)	Dist End (PR)	Dist Duration (NVR)	Dist V1 Min (NVR)	Dist V1 Max (NVR)	Dist V1 Ave (NVR)	Dist V1 Delta (NVR)	Dist V2 Min (NVR)	Dist V2 Max (NVR)	Dist V2 Ave (NVR)	Dist V2 Delta (NVR)	Dist V3 Min (NVR)	Dist V3 Max (NVR)	Dist V3 Ave (NVR)	Dist V3 Delta (NVR)	DistNominal (NVR)	Sub V1 Trig (PR)
Sag Swell	1400	60D1	693E	6940	5AFD	5AFF	5B01	5B03	5B05	5B07	5B09	5B0B	5B0D	5B0F	5B11	5B13	5B15	5DD8	6942
Expansion	1401	60D2	693F	6941	5AFE	5B00	5B02	5B04	5B06	5B08	5B0A	5B0C	5B0E	5B10	5B12	5B14	5B16	5DD9	6943

		Output Registers									Setup Registers				
Module Name	Module Handle	Sub V1 Ave (NVR)	Sub V1 Duration (NVR)	Sub V2 Trig (PR)	Sub V2 Ave (NVR)	Sub V2 Duration (NVR)	Sub V3 Trig (PR)	Sub V3 Ave (NVR)	Sub V3 Duration (NVR)	Event (EVR)	Swell Limit (NBR)	Sag Limit (NBR)	Change Criterion (NBR)	Nominal Voltage (NBR)	Event Priority (NBR)
Sag Swell	1400	5B17	5B19	6944	5B1B	5B1D	6946	5B1F	5B21	1100	7214	7216	7218	721A	721C
Expansion	1401	5B18	5B1A	6945	5B1C	5B1E	6947	5B20	5B22	1100	7215	7217	7219	721B	721D

## Scheduler Modules -- Handle Map

(all Handles in Hex)

		Output Registers																	
Module Name	Module Handle	Sch Status #1 (BVR)	Sch Start #1 (PR)	Sch End #1 (PR)	Sch Status #2 (BVR)	Sch Start #2 (PR)	Sch End #2 (PR)	Sch Status #3 (BVR)	Sch Start #3 (PR)	Sch End #3 (PR)	Sch Status #4 (BVR)	Sch Start #4 (PR)	Sch End #4 (PR)	Sch Status #5 (BVR)	Sch Start #5 (PR)	Sch End #5 (PR)	Sch Status #6 (BVR)	Sch Start #6 (PR)	Sch End #6 (PR)
Sch 1	1480	60D3	6958	6960	60DB	6968	6970	60E3	6978	6980	60EB	6988	6990	60F3	6998	69A0	60FB	69A8	69B0
Sch 2	1481	60D4	6959	6961	60DC	6969	6971	60E4	6979	6981	60EC	6989	6991	60F4	6999	69A1	60FC	69A9	69B1
Sch 3	1482	60D5	695A	6962	60DD	696A	6972	60E5	697A	6982	60ED	698A	6992	60F5	699A	69A2	60FD	69AA	69B2
Sch 4	1483	60D6	695B	6963	60DE	696B	6973	60E6	697B	6983	60EE	698B	6993	60F6	699B	69A3	60FE	69AB	69B3
Sch 5	1484	60D7	695C	6964	60DF	696C	6974	60E7	697C	6984	60EF	698C	6994	60F7	699C	69A4	60FF	69AC	69B4
Sch 6	1485	60D8	695D	6965	60E0	696D	6975	60E8	697D	6985	60F0	698D	6995	60F8	699D	69A5	6100	69AD	69B5
Sch 7	1486	60D9	695E	6966	60E1	696E	6976	60E9	697E	6986	60F1	698E	6996	60F9	699E	69A6	6101	69AE	69B6
Sch 8	1487	60DA	695F	6967	60E2	696F	6977	60EA	697F	6987	60F2	698F	6997	60FA	699F	69A7	6102	69AF	69B7
Sch 9	1488	<b>621C</b>	6D4E	6D51	621F	6D54	6D57	6222	6D5A	6D5D	6225	6D60	6D63	6228	6D66	6D69	622B	6D6C	6D6F
Sch 10	1489	621D	6D4F	6D52	6220	6D55	6D58	6223	6D5B	6D5E	6226	6D61	6D64	6229	6D67	6D6A	622C	6D6D	6D70
Sch 11	148A	621E	6D50	6D53	6221	6D56	6D59	6224	6D5C	6D5F	6227	6D62	6D65	622A	6D68	6D6B	622D	6D6E	6D71

## Scheduler Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers							Setup Register	
		Sch Status #7 (BVR)	Sch Start #7 (PR)	Sch End #7 (PR)	Sch Status #8 (BVR)	Sch Start #8 (PR)	Sch End #8 (PR)	Event (EVR)	Calendar (CAL)	
Sch 1	1480	6103	69B8	69C0	610B	69C8	69D0	1100	1380	
Sch 2	1481	6104	69B9	69C1	610C	69C9	69D1	1100	1381	
Sch 3	1482	6105	69BA	69C2	610D	69CA	69D2	1100	1382	
Sch 4	1483	6106	69BB	69C3	610E	69CB	69D3	1100	1383	
Sch 5	1484	6107	69BC	69C4	610F	69CC	69D4	1100	1384	
Sch 6	1485	6108	69BD	69C5	6110	69CD	69D5	1100	1385	
Sch 7	1486	6109	69BE	69C6	6111	69CE	69D6	1100	1386	
Sch 8	1487	610A	69BF	69C7	6112	69CF	69D7	1100	1387	
Sch 9	1488	622E	6D72	6D75	6231	6D78	6D7B	1100	1388	
Sch 10	1489	622F	6D73	6D76	6232	6D79	6D7C	1100	1389	
Sch 11	148A	6230	6D74	6D77	6233	6D7A	6D7D	1100	138A	

## Scroll Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers																	
		Trigger 1 (PR)	Trigger 2 (PR)	Trigger 3 (PR)	Trigger 4 (PR)	Trigger 5 (PR)	Trigger 6 (PR)	Trigger 7 (PR)	Trigger 8 (PR)	Trigger 9 (PR)	Trigger 10 (PR)	Trigger 11 (PR)	Trigger 12 (PR)	Trigger 13 (PR)	Trigger 14 (PR)	Trigger 15 (PR)	Trigger 16 (PR)	Trigger 17 (PR)	Trigger 18 (PR)
Scroll #1	1E00	6C0E	6C0F	6C10	6C11	6C12	6C13	6C14	6C15	6C16	6C17	6C18	6C19	6C1A	6C1B	6C1C	6C1D	6C1E	6C1F
Scroll #2	1E01	6C22	6C23	6C24	6C25	6C26	6C27	6C28	6C29	6C2A	6C2B	6C2C	6C2D	6C2E	6C2F	6C30	6C31	6C32	6C33
Scroll #3	1E02	6C36	6C37	6C38	6C39	6C3A	6C3B	6C3C	6C3D	6C3E	6C3F	6C40	6C41	6C42	6C43	6C44	6C45	6C46	6C47
Scroll #4	1E03	6C4A	6C4B	6C4C	6C4D	6C4E	6C4F	6C50	6C51	6C52	6C53	6C54	6C55	6C56	6C57	6C58	6C59	6C5A	6C5B
Scroll #5	1E04	6C5E	6C5F	6C60	6C61	6C62	6C63	6C64	6C65	6C66	6C67	6C68	6C69	6C6A	6C6B	6C6C	6C6D	6C6E	6C6F
Scroll #6	1E05	6C72	6C73	6C74	6C75	6C76	6C77	6C78	6C79	6C7A	6C7B	6C7C	6C7D	6C7E	6C7F	6C80	6C81	6C82	6C83
Scroll #7	1E06	6C86	6C87	6C88	6C89	6C8A	6C8B	6C8C	6C8D	6C8E	6C8F	6C90	6C91	6C92	6C93	6C94	6C95	6C96	6C97
Scroll #8	1E07	6C9A	6C9B	6C9C	6C9D	6C9E	6C9F	6CA0	6CA1	6CA2	6CA3	6CA4	6CA5	6CA6	6CA7	6CA8	6CA9	6CAA	6CAB
Scroll #9	1E08	6CAE	6CAF	6CB0	6CB1	6CB2	6CB3	6CB4	6CB5	6CB6	6CB7	6CB8	6CB9	6CBA	6CBB	6CBC	6CBD	6CBE	6CBF
Scroll #10	1E09	6CC2	6CC3	6CC4	6CC5	6CC6	6CC7	6CC8	6CC9	6CCA	6CCB	6CCC	6CCD	6CCE	6CCF	6CD0	6CD1	6CD2	6CD3



## Scroll Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers																	
		Trigger 19 (PR)	Trigger 20 (PR)	Trigger 21 (PR)	Trigger 22 (PR)	Trigger 23 (PR)	Trigger 24 (PR)	Trigger 25 (PR)	Trigger 26 (PR)	Trigger 27 (PR)	Trigger 28 (PR)	Trigger 29 (PR)	Trigger 30 (PR)	Trigger 31 (PR)	Trigger 32 (PR)	Trigger 33 (PR)	Trigger 34 (PR)	Trigger 35 (PR)	Trigger 36 (PR)
Scroll #1	1E00	6C20	6C21	6DB6	6DB7	6DB8	6DB9	6DBA	6DBB	6DBC	6DBD	6DBE	6DBF	6DC0	6DC1	6DC2	6DC3	6DC4	6DC5
Scroll #2	1E01	6C34	6C35	6DCA	6DCB	6DCC	6DCD	6DCE	6DCF	6DD0	6DD1	6DD2	6DD3	6DD4	6DD5	6DD6	6DD7	6DD8	6DD9
Scroll #3	1E02	6C48	6C49	6DDE	6DDF	6DE0	6DE1	6DE2	6DE3	6DE4	6DE5	6DE6	6DE7	6DE8	6DE9	6DEA	6DEB	6DEC	6DED
Scroll #4	1E03	6C5C	6C5D	6DF2	6DF3	6DF4	6DF5	6DF6	6DF7	6DF8	6DF9	6DFA	6DFB	6DFC	6DFD	6DFE	6DFF	6E00	6E01
Scroll #5	1E04	6C70	6C71	6E06	6E07	6E08	6E09	6E0A	6E0B	6E0C	6E0D	6E0E	6E0F	6E10	6E11	6E12	6E13	6E14	6E15
Scroll #6	1E05	6C84	6C85	6E1A	6E1B	6E1C	6E1D	6E1E	6E1F	6E20	6E21	6E22	6E23	6E24	6E25	6E26	6E27	6E28	6E29
Scroll #7	1E06	6C98	6C99	6E2E	6E2F	6E30	6E31	6E32	6E33	6E34	6E35	6E36	6E37	6E38	6E39	6E3A	6E3B	6E3C	6E3D
Scroll #8	1E07	6CAC	6CAD	6E42	6E43	6E44	6E45	6E46	6E47	6E48	6E49	6E4A	6E4B	6E4C	6E4D	6E4E	6E4F	6E50	6E51
Scroll #9	1E08	6CC0	6CC1	6E56	6E57	6E58	6E59	6E5A	6E5B	6E5C	6E5D	6E5E	6E5F	6E60	6E61	6E62	6E63	6E64	6E65
Scroll #10	1E09	6CD4	6CD5	6E6A	6E6B	6E6C	6E6D	6E6E	6E6F	6E70	6E71	6E72	6E73	6E74	6E75	6E76	6E77	6E78	6E79

## Scroll Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers							Setup Registers		
		Trigger 37 (PR)	Trigger 38 (PR)	Trigger 39 (PR)	Trigger 40 (PR)	Freeze State (BR)	Last Trigger (NVR)	Event (EVR)	Scroll Delay (NBR)	Warparound (NBR)	Freeze Time (NBR)
Scroll #1	1E00	6DC6	6DC7	6DC8	6DC9	627E	499C	1100	7787	7791	779B
Scroll #2	1E01	6DDA	6DDB	6DDC	6DDD	627F	499D	1100	7788	7792	779C
Scroll #3	1E02	6DEE	6DEF	6DF0	6DF1	6280	499E	1100	7789	7793	779D
Scroll #4	1E03	6E02	6E03	6E04	6E05	6281	499F	1100	778A	7794	779E
Scroll #5	1E04	6E16	6E17	6E18	6E19	6282	49A0	1100	778B	7795	779F
Scroll #6	1E05	6E2A	6E2B	6E2C	6E2D	6283	49A1	1100	778C	7796	77A0
Scroll #7	1E06	6E3E	6E3F	6E40	6E41	6284	49A2	1100	778D	7797	77A1
Scroll #8	1E07	6E52	6E53	6E54	6E55	6285	49A3	1100	778E	7798	77A2
Scroll #9	1E08	6E66	6E67	6E68	6E69	6286	49A4	1100	778F	7799	77A3
Scroll #10	1E09	6E7A	6E7B	6E7C	6E7D	6287	49A5	1100	7790	779A	77A4

## Setpoint Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers						
		Status (BVR)	Trigger (DR)	Event (EVR)	High Limit (NBR)	Low Limit (NBR)	TD Operate (NBR)	TD Release (NBR)	Input Mode (ENR)	Evaluate Mode (ENR)	Event Priority (NBR)
SP #1	680	6063	6876	1100	7124	713C	7154	716C	78E8	7900	7184
SP #2	0681	6064	6877	1100	7125	713D	7155	716D	78E9	7901	7185
SP #3	0682	6065	6878	1100	7126	713E	7156	716E	78EA	7902	7186
SP #4	0683	6066	6879	1100	7127	713F	7157	716F	78EB	7903	7187
SP #5	0684	6067	687A	1100	7128	7140	7158	7170	78EC	7904	7188
SP #6	0685	6068	687B	1100	7129	7141	7159	7171	78ED	7905	7189
SP #7	0686	6069	687C	1100	712A	7142	715A	7172	78EE	7906	718A
SP #8	0687	606A	687D	1100	712B	7143	715B	7173	78EF	7907	718B
SP #9	0688	606B	687E	1100	712C	7144	715C	7174	78F0	7908	718C
SP #10	0689	606C	687F	1100	712D	7145	715D	7175	78F1	7909	718D
SP #11	068A	606D	6880	1100	712E	7146	715E	7176	78F2	790A	718E
SP #12	068B	606E	6881	1100	712F	7147	715F	7177	78F3	790B	718F
SP #13	068C	606F	6882	1100	7130	7148	7160	7178	78F4	790C	7190
SP #14	068D	6070	6883	1100	7131	7149	7161	7179	78F5	790D	7191
SP #15	068E	6071	6884	1100	7132	714A	7162	717A	78F6	790E	7192
SP #16	068F	6072	6885	1100	7133	714B	7163	717B	78F7	790F	7193
SP #17	0690	6073	6886	1100	7134	714C	7164	717C	78F8	7910	7194
SP #18	0691	6074	6887	1100	7135	714D	7165	717D	78F9	7911	7195
SP #19	0692	6075	6888	1100	7136	714E	7166	717E	78FA	7912	7196
SP #20	0693	6076	6889	1100	7137	714F	7167	717F	78FB	7913	7197
SP #21	0694	6077	688A	1100	7138	7150	7168	7180	78FC	7914	7198
SP #22	0695	6078	688B	1100	7139	7151	7169	7181	78FD	7915	7199
SP #23	0696	6079	688C	1100	713A	7152	716A	7182	78FE	7916	719A
SP #24	0697	607A	688D	1100	713B	7153	716B	7183	78FF	7917	719B

## Signal Limit Evaluation Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers			Setup Registers						
		Num Valid (NVR)	Num Exceed (NVR)	Num Invalid (NVR)	Upper Limit (NBR)	Lower Limit (NBR)	Discard Ratio (NBR)	Event Priority (NBR)	Avg Source (ENR)	Avg Nominal (ENR)	Eval Mode (ENR)
SLE #1	2300	4F5F	4F6E	4F7D	4135	4144	4153	4162	7DF2	7E01	7E10
SLE #2	2301	4F60	4F6F	4F7E	4136	4145	4154	4163	7DF3	7E02	7E11
SLE #3	2302	4F61	4F70	4F7F	4137	4146	4155	4164	7DF4	7E03	7E12
SLE #4	2303	4F62	4F71	4F80	4138	4147	4156	4165	7DF5	7E04	7E13
SLE #5	2304	4F63	4F72	4F81	4139	4148	4157	4166	7DF6	7E05	7E14
SLE #6	2305	4F64	4F73	4F82	413A	4149	4158	4167	7DF7	7E06	7E15
SLE #7	2306	4F65	4F74	4F83	413B	414A	4159	4168	7DF8	7E07	7E16
SLE #8	2307	4F66	4F75	4F84	413C	414B	415A	4169	7DF9	7E08	7E17
SLE #9	2308	4F67	4F76	4F85	413D	414C	415B	416A	7DFA	7E09	7E18
SLE #10	2309	4F68	4F77	4F86	413E	414D	415C	416B	7DFB	7E0A	7E19
SLE #11	230A	4F69	4F78	4F87	413F	414E	415D	416C	7DFC	7E0B	7E1A
SLE #12	230B	4F6A	4F79	4F88	4140	414F	415E	416D	7DFD	7E0C	7E1B
SLE #13	230C	4F6B	4F7A	4F89	4141	4150	415F	416E	7DFE	7E0D	7E1C
SLE #14	230D	4F6C	4F7B	4F8A	4142	4151	4160	416F	7DFF	7E0E	7E1D
SLE #15	230E	4F6D	4F7C	4F8B	4143	4152	4161	4170	7E00	7E0F	7E1E

## Sliding Window Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		SWD (NVR)	Prediction (NVR)	Time Left (NVR)	Interval End (PR)	Event (EVR)	Period (NBR)	#Periods (NBR)	Prediction Speed (NBR)
SWD #1	400	5880	5890	5EDE	6B08	1100	70B4	70C4	70D4
SWD #2	0401	5881	5891	5EDF	6B09	1100	70B5	70C5	70D5
SWD #3	0402	5882	5892	5EE0	6B0A	1100	70B6	70C6	70D6
SWD #4	0403	5883	5893	5EE1	6B0B	1100	70B7	70C7	70D7
SWD #5	0404	5884	5894	5EE2	6B0C	1100	70B8	70C8	70D8
SWD #6	0405	5885	5895	5EE3	6B0D	1100	70B9	70C9	70D9
SWD #7	0406	5886	5896	5EE4	6B0E	1100	70BA	70CA	70DA
SWD #8	0407	5887	5897	5EE5	6B0F	1100	70BB	70CB	70DB
SWD #9	0408	5888	5898	5EE6	6B10	1100	70BC	70CC	70DC
SWD #10	0409	5889	5899	5EE7	6B11	1100	70BD	70CD	70DD
SWD #11	040A	588A	589A	5EE8	6B12	1100	70BE	70CE	70DE
SWD #12	040B	588B	589B	5EE9	6B13	1100	70BF	70CF	70DF
SWD #13	040C	588C	589C	5EEA	6B14	1100	70C0	70D0	70E0
SWD #14	040D	588D	589D	5EEB	6B15	1100	70C1	70D1	70E1
SWD #15	040E	588E	589E	5EEC	6B16	1100	70C2	70D2	70E2
SWD #16	040F	588F	589F	5EED	6B17	1100	70C3	70D3	70E3

added 24 SWD Modules -- Nov 97

SWD #17	0410	5DDA	5DF2	5EEE	6B18	1100	7555	756D	7585
SWD #18	0411	5ddb	5df3	5EEF	6B19	1100	7556	756E	7586
SWD #19	0412	5DDC	5DF4	5EF0	6B1A	1100	7557	756F	7587
SWD #20	0413	5DDD	5DF5	5EF1	6B1B	1100	7558	7570	7588

## Sliding Window Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		SWD (NVR)	Prediction (NVR)	Time Left (NVR)	Interval End (PR)	Event (EVR)	Period (NBR)	#Periods (NBR)	Prediction Speed (NBR)
SWD #21	0414	5DDE	5DF6	5EF2	6B1C	1100	7559	7571	7589
SWD #22	0415	5DDF	5DF7	5EF3	6B1D	1100	755A	7572	758A
SWD #23	0416	5DE0	5DF8	5EF4	6B1E	1100	755B	7573	758B
SWD #24	0417	5DE1	5DF9	5EF5	6B1F	1100	755C	7574	758C
SWD #25	0418	5DE2	5DFA	5EF6	6B20	1100	755D	7575	758D
SWD #26	0419	5DE3	5DFB	5EF7	6B21	1100	755E	7576	758E
SWD #27	041A	5DE4	5DFC	5EF8	6B22	1100	755F	7577	758F
SWD #28	041B	5DE5	5DFD	5EF9	6B23	1100	7560	7578	7590
SWD #29	041C	5DE6	5DFE	5EFA	6B24	1100	7561	7579	7591
SWD #30	041D	5DE7	5DFF	5EFB	6B25	1100	7562	757A	7592
SWD #31	041E	5DE8	5E00	5EFC	6B26	1100	7563	757B	7593
SWD #32	041F	5DE9	5E01	5EFD	6B27	1100	7564	757C	7594
SWD #33	0420	5DEA	5E02	5EFE	6B28	1100	7565	757D	7595
SWD #34	0421	5DEB	5E03	5EFF	6B29	1100	7566	757E	7596
SWD #35	0422	5DEC	5E04	5F00	6B2A	1100	7567	757F	7597
SWD #36	0423	5DED	5E05	5F01	6B2B	1100	7568	7580	7598
SWD #37	0424	5DEE	5E06	5F02	6B2C	1100	7569	7581	7599
SWD #38	0425	5DEF	5E07	5F03	6B2D	1100	756A	7582	759A
SWD #39	0426	5DF0	5E08	5F04	6B2E	1100	756B	7583	759B
SWD #40	0427	5DF1	5E09	5F05	6B2F	1100	756C	7584	759C

## Sliding Window Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		SWD (NVR)	Prediction (NVR)	Time Left (NVR)	Interval End (PR)	Event (EVR)	Period (NBR)	#Periods (NBR)	Prediction Speed (NBR)

added 40 SWD Modules -- Feb 99

SWD #41	0428	5F09	5F31	5F59	6B30	1100	75D7	75FF	7627
SWD #42	0429	5F0A	5F32	5F5A	6B31	1100	75D8	7600	7628
SWD #43	042A	5F0B	5F33	5F5B	6B32	1100	75D9	7601	7629
SWD #44	042B	5F0C	5F34	5F5C	6B33	1100	75DA	7602	762A
SWD #45	042C	5F0D	5F35	5F5D	6B34	1100	75DB	7603	762B
SWD #46	042D	5F0E	5F36	5F5E	6B35	1100	75DC	7604	762C
SWD #47	042E	5F0F	5F37	5F5F	6B36	1100	75DD	7605	762D
SWD #48	042F	5F10	5F38	5F60	6B37	1100	75DE	7606	762E
SWD #49	0430	5F11	5F39	5F61	6B38	1100	75DF	7607	762F
SWD #50	0431	5F12	5F3A	5F62	6B39	1100	75E0	7608	7630
SWD #51	0432	5F13	5F3B	5F63	6B3A	1100	75E1	7609	7631
SWD #52	0433	5F14	5F3C	5F64	6B3B	1100	75E2	760A	7632
SWD #53	0434	5F15	5F3D	5F65	6B3C	1100	75E3	760B	7633
SWD #54	0435	5F16	5F3E	5F66	6B3D	1100	75E4	760C	7634
SWD #55	0436	5F17	5F3F	5F67	6B3E	1100	75E5	760D	7635
SWD #56	0437	5F18	5F40	5F68	6B3F	1100	75E6	760E	7636
SWD #57	0438	5F19	5F41	5F69	6B40	1100	75E7	760F	7637
SWD #58	0439	5F1A	5F42	5F6A	6B41	1100	75E8	7610	7638
SWD #59	043A	5F1B	5F43	5F6B	6B42	1100	75E9	7611	7639
SWD #60	043B	5F1C	5F44	5F6C	6B43	1100	75EA	7612	763A

## Sliding Window Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		SWD (NVR)	Prediction (NVR)	Time Left (NVR)	Interval End (PR)	Event (EVR)	Period (NBR)	#Periods (NBR)	Prediction Speed (NBR)
SWD #61	043C	5F1D	5F45	5F6D	6B44	1100	75EB	7613	763B
SWD #62	043D	5F1E	5F46	5F6E	6B45	1100	75EC	7614	763C
SWD #63	043E	5F1F	5F47	5F6F	6B46	1100	75ED	7615	763D
SWD #64	043F	5F20	5F48	5F70	6B47	1100	75EE	7616	763E
SWD #65	0440	5F21	5F49	5F71	6B48	1100	75EF	7617	763F
SWD #66	0441	5F22	5F4A	5F72	6B49	1100	75F0	7618	7640
SWD #67	0442	5F23	5F4B	5F73	6B4A	1100	75F1	7619	7641
SWD #68	0443	5F24	5F4C	5F74	6B4B	1100	75F2	761A	7642
SWD #69	0444	5F25	5F4D	5F75	6B4C	1100	75F3	761B	7643
SWD #70	0445	5F26	5F4E	5F76	6B4D	1100	75F4	761C	7644
SWD #71	0446	5F27	5F4F	5F77	6B4E	1100	75F5	761D	7645
SWD #72	0447	5F28	5F50	5F78	6B4F	1100	75F6	761E	7646
SWD #73	0448	5F29	5F51	5F79	6B50	1100	75F7	761F	7647
SWD #74	0449	5F2A	5F52	5F7A	6B51	1100	75F8	7620	7648
SWD #75	044A	5F2B	5F53	5F7B	6B52	1100	75F9	7621	7649
SWD #76	044B	5F2C	5F54	5F7C	6B53	1100	75FA	7622	764A
SWD #77	044C	5F2D	5F55	5F7D	6B54	1100	75FB	7623	764B
SWD #78	044D	5F2E	5F56	5F7E	6B55	1100	75FC	7624	764C
SWD #79	044E	5F2F	5F57	5F7F	6B56	1100	75FD	7625	764D
SWD #80	044F	5F30	5F58	5F80	6B57	1100	75FE	7626	764E



## Sliding Window Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		SWD (NVR)	Prediction (NVR)	Time Left (NVR)	Interval End (PR)	Event (EVR)	Period (NBR)	#Periods (NBR)	Prediction Speed (NBR)

added 20 - May 99

SWD #81	0450	4B02	4B16	4B2A	6EC2	1100	4000	4014	4028
SWD #82	0451	4B03	4B17	4B2B	6EC3	1100	4001	4015	4029
SWD #83	0452	4B04	4B18	4B2C	6EC4	1100	4002	4016	402A
SWD #84	0453	4B05	4B19	4B2D	6EC5	1100	4003	4017	402B
SWD #85	0454	4B06	4B1A	4B2E	6EC6	1100	4004	4018	402C
SWD #86	0455	4B07	4B1B	4B2F	6EC7	1100	4005	4019	402D
SWD #87	0456	4B08	4B1C	4B30	6EC8	1100	4006	401A	402E
SWD #88	0457	4B09	4B1D	4B31	6EC9	1100	4007	401B	402F
SWD #89	0458	4B0A	4B1E	4B32	6ECA	1100	4008	401C	4030
SWD #90	0459	4B0B	4B1F	4B33	6ECB	1100	4009	401D	4031
SWD #91	045A	4B0C	4B20	4B34	6ECC	1100	400A	401E	4032
SWD #92	045B	4B0D	4B21	4B35	6ECD	1100	400B	401F	4033
SWD #93	045C	4B0E	4B22	4B36	6ECE	1100	400C	4020	4034
SWD #94	045D	4B0F	4B23	4B37	6ECF	1100	400D	4021	4035
SWD #95	045E	4B10	4B24	4B38	6ED0	1100	400E	4022	4036
SWD #96	045F	4B11	4B25	4B39	6ED1	1100	400F	4023	4037
SWD #97	0460	4B12	4B26	4B3A	6ED2	1100	4010	4024	4038
SWD #98	0461	4B13	4B27	4B3B	6ED3	1100	4011	4025	4039
SWD #99	0462	4B14	4B28	4B3C	6ED4	1100	4012	4026	403A
SWD #100	0463	4B15	4B29	4B3D	6ED5	1100	4013	4027	403B

## Sliding Window Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		SWD (NVR)	Prediction (NVR)	Time Left (NVR)	Interval End (PR)	Event (EVR)	Period (NBR)	#Periods (NBR)	Prediction Speed (NBR)

added 28 - April 2000

SWD #101	0464	4FAA	4FC6	4FE2	6FAC	1100	421B	4237	4253
SWD #102	0465	4FAB	4FC7	4FE3	6FAD	1100	421C	4238	4254
SWD #103	0466	4FAC	4FC8	4FE4	6FAE	1100	421D	4239	4255
SWD #104	0467	4FAD	4FC9	4FE5	6FAF	1100	421E	423A	4256
SWD #105	0468	4FAE	4FCA	4FE6	6FB0	1100	421F	423B	4257
SWD #106	0469	4FAF	4FCB	4FE7	6FB1	1100	4220	423C	4258
SWD #107	046A	4FB0	4FCC	4FE8	6FB2	1100	4221	423D	4259
SWD #108	046B	4FB1	4FCD	4FE9	6FB3	1100	4222	423E	425A
SWD #109	046C	4FB2	4FCE	4FEA	6FB4	1100	4223	423F	425B
SWD #110	046D	4FB3	4FCF	4FEB	6FB5	1100	4224	4240	425C
SWD #111	046E	4FB4	4FD0	4FEC	6FB6	1100	4225	4241	425D
SWD #112	046F	4FB5	4FD1	4FED	6FB7	1100	4226	4242	425E
SWD #113	0470	4FB6	4FD2	4FEE	6FB8	1100	4227	4243	425F
SWD #114	0471	4FB7	4FD3	4FEF	6FB9	1100	4228	4244	4260
SWD #115	0472	4FB8	4FD4	4FF0	6FBA	1100	4229	4245	4261
SWD #116	0473	4FB9	4FD5	4FF1	6FBB	1100	422A	4246	4262
SWD #117	0474	4FBA	4FD6	4FF2	6FBC	1100	422B	4247	4263
SWD #118	0475	4FBB	4FD7	4FF3	6FBD	1100	422C	4248	4264
SWD #119	0476	4FBC	4FD8	4FF4	6FBE	1100	422D	4249	4265

## Sliding Window Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers		
		SWD (NVR)	Prediction (NVR)	Time Left (NVR)	Interval End (PR)	Event (EVR)	Period (NBR)	#Periods (NBR)	Prediction Speed (NBR)
SWD #120	0477	4FBD	4FD9	4FF5	6FBF	1100	422E	424A	4266
SWD #121	0478	4FBE	4FDA	4FF6	6FC0	1100	422F	424B	4267
SWD #122	0479	4FBF	4FDB	4FF7	6FC1	1100	4230	424C	4268
SWD #123	047A	4FC0	4FDC	4FF8	6FC2	1100	4231	424D	4269
SWD #124	047B	4FC1	4FDD	4FF9	6FC3	1100	4232	424E	426A
SWD #125	047C	4FC2	4FDE	4FFA	6FC4	1100	4233	424F	426B
SWD #126	047D	4FC3	4FDF	4FFB	6FC5	1100	4234	4250	426C
SWD #127	047E	4FC4	4FE0	4FFC	6FC6	1100	4235	4251	426D
SWD #128	047F	4FC5	4FE1	4FFD	6FC7	1100	4236	4252	426E

## Store Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers									
		Source Out 1 (NVR)	Source Out 2 (NVR)	Source Out 3 (NVR)	Source Out 4 (NVR)	Source Out 5 (NVR)	Source Out 6 (NVR)	Source Out 7 (NVR)	Source Out 8 (NVR)	Store Complete (PR)	Event (EVR)
Store #1	1E80	48AC	48CA	48E8	4906	4924	4942	4960	497E	6D88	1100
Store #2	1E81	48AD	48CB	48E9	4907	4925	4943	4961	497F	6D89	1100
Store #3	1E82	48AE	48CC	48EA	4908	4926	4944	4962	4980	6D8A	1100
Store #4	1E83	48AF	48CD	48EB	4909	4927	4945	4963	4981	6D8B	1100
Store #5	1E84	48B0	48CE	48EC	490A	4928	4946	4964	4982	6D8C	1100
Store #6	1E85	48B1	48CF	48ED	490B	4929	4947	4965	4983	6D8D	1100
Store #7	1E86	48B2	48D0	48EE	490C	492A	4948	4966	4984	6D8E	1100
Store #8	1E87	48B3	48D1	48EF	490D	492B	4949	4967	4985	6D8F	1100
Store #9	1E88	48B4	48D2	48F0	490E	492C	494A	4968	4986	6D90	1100
Store #10	1E89	48B5	48D3	48F1	490F	492D	494B	4969	4987	6D91	1100
Store #11	1E8A	48B6	48D4	48F2	4910	492E	494C	496A	4988	6D92	1100
Store #12	1E8B	48B7	48D5	48F3	4911	492F	494D	496B	4989	6D93	1100
Store #13	1E8C	48B8	48D6	48F4	4912	4930	494E	496C	498A	6D94	1100
Store #14	1E8D	48B9	48D7	48F5	4913	4931	494F	496D	498B	6D95	1100
Store #15	1E8E	48BA	48D8	48F6	4914	4932	4950	496E	498C	6D96	1100
Store #16	1E8F	48BB	48D9	48F7	4915	4933	4951	496F	498D	6D97	1100
Store #17	1E90	48BC	48DA	48F8	4916	4934	4952	4970	498E	6D98	1100
Store #18	1E91	48BD	48DB	48F9	4917	4935	4953	4971	498F	6D99	1100
Store #19	1E92	48BE	48DC	48FA	4918	4936	4954	4972	4990	6D9A	1100
Store #20	1E93	48BF	48DD	48FB	4919	4937	4955	4973	4991	6D9B	1100
Store #21	1E94	48C0	48DE	48FC	491A	4938	4956	4974	4992	6D9C	1100
Store #22	1E95	48C1	48DF	48FD	491B	4939	4957	4975	4993	6D9D	1100

## Store Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers									
		Source Out 1 (NVR)	Source Out 2 (NVR)	Source Out 3 (NVR)	Source Out 4 (NVR)	Source Out 5 (NVR)	Source Out 6 (NVR)	Source Out 7 (NVR)	Source Out 8 (NVR)	Store Complete (PR)	Event (EVR)
Store #23	1E96	48C2	48E0	48FE	491C	493A	4958	4976	4994	6D9E	1100
Store #24	1E97	48C3	48E1	48FF	491D	493B	4959	4977	4995	6D9F	1100
Store #25	1E98	48C4	48E2	4900	491E	493C	495A	4978	4996	6DA0	1100
Store #26	1E99	48C5	48E3	4901	491F	493D	495B	4979	4997	6DA1	1100
Store #27	1E9A	48C6	48E4	4902	4920	493E	495C	497A	4998	6DA2	1100
Store #28	1E9B	48C7	48E5	4903	4921	493F	495D	497B	4999	6DA3	1100
Store #29	1E9C	48C8	48E6	4904	4922	4940	495E	497C	499A	6DA4	1100
Store #30	1E9D	48C9	48E7	4905	4923	4941	495F	497D	499B	6DA5	1100

20 Store Modules Added April 18, 2000

Store #31	1E9E	3C89	3C9D	3CB1	3CC5	3CD9	3CED	3D01	3D15	6F98	1100
Store #32	1E9F	3C8A	3C9E	3CB2	3CC6	3CDA	3CEE	3D02	3D16	6F99	1100
Store #33	1EA0	3C8B	3C9F	3CB3	3CC7	3CDB	3CEF	3D03	3D17	6F9A	1100
Store #34	1EA1	3C8C	3CA0	3CB4	3CC8	3CDC	3CF0	3D04	3D18	6F9B	1100
Store #35	1EA2	3C8D	3CA1	3CB5	3CC9	3CDD	3CF1	3D05	3D19	6F9C	1100
Store #36	1EA3	3C8E	3CA2	3CB6	3CCA	3CDE	3CF2	3D06	3D1A	6F9D	1100
Store #37	1EA4	3C8F	3CA3	3CB7	3CCB	3CDF	3CF3	3D07	3D1B	6F9E	1100
Store #38	1EA5	3C90	3CA4	3CB8	3CCC	3CE0	3CF4	3D08	3D1C	6F9F	1100
Store #39	1EA6	3C91	3CA5	3CB9	3CCD	3CE1	3CF5	3D09	3D1D	6FA0	1100
Store #40	1EA7	3C92	3CA6	3CBA	3CCE	3CE2	3CF6	3D0A	3D1E	6FA1	1100
Store #41	1EA8	3C93	3CA7	3CBB	3CCF	3CE3	3CF7	3D0B	3D1F	6FA2	1100

## Store Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers									
		Source Out 1 (NVR)	Source Out 2 (NVR)	Source Out 3 (NVR)	Source Out 4 (NVR)	Source Out 5 (NVR)	Source Out 6 (NVR)	Source Out 7 (NVR)	Source Out 8 (NVR)	Store Complete (PR)	Event (EVR)
Store #42	1EA9	3C94	3CA8	3CBC	3CD0	3CE4	3CF8	3D0C	3D20	6FA3	1100
Store #43	1EAA	3C95	3CA9	3CBD	3CD1	3CE5	3CF9	3D0D	3D21	6FA4	1100
Store #44	1EAB	3C96	3CAA	3CBE	3CD2	3CE6	3CFA	3D0E	3D22	6FA5	1100
Store #45	1EAC	3C97	3CAB	3CBF	3CD3	3CE7	3CFB	3D0F	3D23	6FA6	1100
Store #46	1EAD	3C98	3CAC	3CC0	3CD4	3CE8	3CFC	3D10	3D24	6FA7	1100
Store #47	1EAE	3C99	3CAD	3CC1	3CD5	3CE9	3CFD	3D11	3D25	6FA8	1100
Store #48	1EAF	3C9A	3CAE	3CC2	3CD6	3CEA	3CFE	3D12	3D26	6FA9	1100
Store #49	1EB0	3C9B	3CAF	3CC3	3CD7	3CEB	3CFF	3D13	3D27	6FAA	1100
Store #50	1EB1	3C9C	3CB0	3CC4	3CD8	3CEC	3D00	3D14	3D28	6FAB	1100

## Symmetrical Components Module -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers						Setup Registers
		Zero Sequ-mag (NVR)	Zero sequ-phase (NVR)	Pos Sequ-mag (NVR)	Pos Sequ-phase (NVR)	Neg Sequ-mag (NVR)	Neg Sequ-phase (NVR)	Harmonic (NBR)
SYM #1	0E80	5AF1	5AF2	5AF3	5AF4	5AF5	5AF6	N/A
SYM #2	0E81	5AF7	5AF8	5AF9	5AFA	5AFB	5AFC	N/A

Note:

SYM#1 = Voltage

SYM#2 = Current

## Thermal Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers	
		TD (NVR)	Event (EVR)	Period (NBR)	Time Constant (NBR)
TD #1	480	58A0	1100	70E4	70F4
TD #2	0481	58A1	1100	70E5	70F5
TD #3	0482	58A2	1100	70E6	70F6
TD #4	0483	58A3	1100	70E7	70F7
TD #5	0484	58A4	1100	70E8	70F8
TD #6	0485	58A5	1100	70E9	70F9
TD #7	0486	58A6	1100	70EA	70FA
TD #8	0487	58A7	1100	70EB	70FB
TD #9	0488	58A8	1100	70EC	70FC
TD #10	0489	58A9	1100	70ED	70FD
TD #11	048A	58AA	1100	70EE	70FE
TD #12	048B	58AB	1100	70EF	70FF
TD #13	048C	58AC	1100	70F0	7100
TD #14	048D	58AD	1100	70F1	7101
TD #15	048E	58AE	1100	70F2	7102
TD #16	048F	58AF	1100	70F3	7103

Module Name	Module Handle	Output Registers		Setup Registers	
		TD (NVR)	Event (EVR)	Period (NBR)	Time Constant (NBR)

added 34 - Feb 99

TD #17	0490	5FDB	1100	772F	7751
TD #18	0491	5FDC	1100	7730	7752
TD #19	0492	5FDD	1100	7731	7753
TD #20	0493	5FDE	1100	7732	7754
TD #21	0494	5FDF	1100	7733	7755
TD #22	0495	5FE0	1100	7734	7756
TD #23	0496	5FE1	1100	7735	7757
TD #24	0497	5FE2	1100	7736	7758
TD #25	0498	5FE3	1100	7737	7759
TD #26	0499	5FE4	1100	7738	775A
TD #27	049A	5FE5	1100	7739	775B
TD #28	049B	5FE6	1100	773A	775C
TD #29	049C	5FE7	1100	773B	775D
TD #30	049D	5FE8	1100	773C	775E
TD #31	049E	5FE9	1100	773D	775F
TD #32	049F	5FEA	1100	773E	7760



## Thermal Demand Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers		Setup Registers	
		TD (NVR)	Event (EVR)	Period (NBR)	Time Constant (NBR)
TD #33	04A0	5FEB	1100	773F	7761
TD #34	04A1	5FEC	1100	7740	7762
TD #35	04A2	5FED	1100	7741	7763
TD #36	04A3	5FEE	1100	7742	7764
TD #37	04A4	5FEF	1100	7743	7765
TD #38	04A5	5FF0	1100	7744	7766
TD #39	04A6	5FF1	1100	7745	7767
TD #40	04A7	5FF2	1100	7746	7768
TD #41	04A8	5FF3	1100	7747	7769
TD #42	04A9	5FF4	1100	7748	776A
TD #43	04AA	5FF5	1100	7749	776B
TD #44	04AB	5FF6	1100	774A	776C
TD #45	04AC	5FF7	1100	774B	776D
TD #46	04AD	5FF8	1100	774C	776E
TD #47	04AE	5FF9	1100	774D	776F
TD #48	04AF	5FFA	1100	774E	7770
TD #49	04B0	5FFB	1100	774F	7771
TD #50	04B1	5FFC	1100	7750	7772

Module Name	Module Handle	Output Registers		Setup Registers	
		TD (NVR)	Event (EVR)	Period (NBR)	Time Constant (NBR)

added 20 - May 99

TD #51	04B2	4B3E	1100	403C	4050
TD #52	04B3	4B3F	1100	403D	4051
TD #53	04B4	4B40	1100	403E	4052
TD #54	04B5	4B41	1100	403F	4053
TD #55	04B6	4B42	1100	4040	4054
TD #56	04B7	4B43	1100	4041	4055
TD #57	04B8	4B44	1100	4042	4056
TD #58	04B9	4B45	1100	4043	4057
TD #59	04BA	4B46	1100	4044	4058
TD #60	04BB	4B47	1100	4045	4059
TD #61	04BC	4B48	1100	4046	405A
TD #62	04BD	4B49	1100	4047	405B
TD #63	04BE	4B4A	1100	4048	405C
TD #64	04BF	4B4B	1100	4049	405D
TD #65	04C0	4B4C	1100	404A	405E
TD #66	04C1	4B4D	1100	404B	405F
TD #67	04C2	4B4E	1100	404C	4060
TD #68	04C3	4B4F	1100	404D	4061
TD #69	04C4	4B50	1100	404E	4062
TD #70	04C5	4B51	1100	404F	4063

## Time of Use Modules -- Handle Map

(all Handles in Hex)

		Output Registers																		
Module Name	Module Handle	Rate A Status (BR)	Rate B Status (BR)	Rate C Status (BR)	Rate D Status (BR)	Rate Change (PR)	Season 1 Status (BR)	Season 2 Status (BR)	Season 3 Status (BR)	Season 4 Status (BR)	Season Change (PR)	Weekday Status (BR)	Weekend Status (BR)	Alternative 1 Status (BR)	Alternative 2 Status (BR)	Holiday Status (BR)	Schedule Change (PR)	Monday Status (BR)	Tuesday Status (BR)	Wednesday Status (BR)
TOU 1	1F00	6234	623C	6244	624C	6F26	6254	625C	6264	626C	6DA6	62AE	62B6	62BE	62C6	62CE	6F2E	62D6	62DE	62E6
TOU 2	1F01	6235	623D	6245	624D	6F27	6255	625D	6265	626D	6DA7	62AF	62B7	62BF	62C7	62CF	6F2F	62D7	62DF	62E7
TOU 3	1F02	6236	623E	6246	624E	6F28	6256	625E	6266	626E	6DA8	62B0	62B8	62C0	62C8	62D0	6F30	62D8	62E0	62E8
TOU 4	1F03	6237	623F	6247	624F	6F29	6257	625F	6267	626F	6DA9	62B1	62B9	62C1	62C9	62D1	6F31	62D9	62E1	62E9
TOU 5	1F04	6238	6240	6248	6250	6F2A	6258	6260	6268	6270	6DAA	62B2	62BA	62C2	62CA	62D2	6F32	62DA	62E2	62EA
TOU 6	1F05	6239	6241	6249	6251	6F2B	6259	6261	6269	6271	6DAB	62B3	62BB	62C3	62CB	62D3	6F33	62DB	62E3	62EB
TOU 7	1F06	623A	6242	624A	6252	6F2C	625A	6262	626A	6272	6DAC	62B4	62BC	62C4	62CC	62D4	6F34	62DC	62E4	62EC
TOU 8	1F07	623B	6243	624B	6253	6F2D	625B	6263	626B	6273	6DAD	62B5	62BD	62C5	62CD	62D5	6F35	62DD	62E5	62ED

## Time of Use Modules -- Handle Map

(all Handles in Hex)

		Output Registers							Setup Registers											
Module Name	Module Handle	Thursday Status (BR)	Friday Status (BR)	Saturday Status (BR)	Sunday Status (BR)	Day Of Week Change (PR)	Self Read (PR)	Event (EVR)	Season 1 (SR)	Season 1 Weekday (SR)	Season 1 Weekend (SR)	Season 1 Alternative 1 (SR)	Season 1 Alternative 2 (SR)	Season 1 Holiday (SR)	Season 2 (SR)	Season 2 Weekday (SR)	Season 2 Weekend (SR)	Season 2 Alternative 1 (SR)	Season 2 Alternative 2 (SR)	Season 2 Holiday (SR)
TOU 1	1F00	62EE	62F6	62FE	6306	6F36	6DAE	1100	50AF	50CF	50D7	50DF	50E7	50EF	50B7	50F7	50FF	5107	510F	5117
TOU 2	1F01	62EF	62F7	62FF	6307	6F37	6DAF	1100	50B0	50D0	50D8	50E0	50E8	50F0	50B8	50F8	5100	5108	5110	5118
TOU 3	1F02	62F0	62F8	6300	6308	6F38	6DB0	1100	50B1	50D1	50D9	50E1	50E9	50F1	50B9	50F9	5101	5109	5111	5119
TOU 4	1F03	62F1	62F9	6301	6309	6F39	6DB1	1100	50B2	50D2	50DA	50E2	50EA	50F2	50BA	50FA	5102	510A	5112	511A
TOU 5	1F03	62F2	62FA	6302	630A	6F3A	6DB2	1100	50B3	50D3	50DB	50E3	50EB	50F3	50BB	50FB	5103	510B	5113	511B
TOU 6	1F05	62F3	62FB	6303	630B	6F3B	6DB3	1100	50B4	50D4	50DC	50E4	50EC	50F4	50BC	50FC	5104	510C	5114	511C
TOU 7	1F06	62F4	62FC	6304	630C	6F3C	6DB4	1100	50B5	50D5	50DD	50E5	50ED	50F5	50BD	50FD	5105	510D	5115	511D
TOU 8	1F07	62F5	62FD	6305	630D	6F3D	6DB5	1100	50B6	50D6	50DE	50E6	50EE	50F6	50BE	50FE	5106	510E	5116	511E

## Time of Use Modules -- Handle Map

(all Handles in Hex)

		Setup Registers																	
Module Name	Module Handle	Season 3 (SR)	Season 3 Weekday (SR)	Season 3 Weekend (SR)	Season 3 Alternative 1 (SR)	Season 3 Alternative 2 (SR)	Season 3 Holiday (SR)	Season 4 (SR)	Season 4 Weekday (SR)	Season 4 Weekend (SR)	Season 4 Alternative 1 (SR)	Season 4 Alternative 2 (SR)	Season 4 Holiday (SR)	Weekday Days (SR)	Weekend Days (SR)	Alternative 1 Dates (SR)	Alternative 2 Dates (SR)	Holiday Dates (SR)	Self Read Dates (SR)
TOU 1	1F00	50BF	511F	5127	512F	5137	513F	50C7	5147	514F	5157	515F	5167	516F	5177	517F	5187	518F	5197
TOU 2	1F01	50C0	5120	5128	5130	5138	5140	50C8	5148	5150	5158	5160	5168	5170	5178	5180	5188	5190	5198
TOU 3	1F02	50C1	5121	5129	5131	5139	5141	50C9	5149	5151	5159	5161	5169	5171	5179	5181	5189	5191	5199
TOU 4	1F03	50C2	5122	512A	5132	513A	5142	50CA	514A	5152	515A	5162	516A	5172	517A	5182	518A	5192	519A
TOU 5	1F04	50C3	5123	512B	5133	513B	5143	50CB	514B	5153	515B	5163	516B	5173	517B	5183	518B	5193	519B
TOU 6	1F05	50C4	5124	512C	5134	513C	5144	50CC	514C	5154	515C	5164	516C	5174	517C	5184	518C	5194	519C
TOU 7	1F06	50C5	5125	512D	5135	513D	5145	50CD	514D	5155	515D	5165	516D	5175	517D	5185	518D	5195	519D
TOU 8	1F07	50C6	5126	512E	5136	513E	5146	50CE	514E	5156	515E	5166	516E	5176	517E	5186	518E	5196	519E

## Transient Modules -- Handle Map

(all Handles in Hex)

		Output Registers												Setup Registers	
Module Name	Module Handle	TranV1Dur (NVR)	TranV1Max (NVR)	V1Trig (PR)	TranV2Dur (NVR)	TranV2Max (NVR)	V2Trig (PR)	TranV3Dur (NVR)	TranV3Max (NVR)	V3Trig (PR)	TranNominal (NVR)	AnyTrig (PR)	Event (EVR)	Threshold (NBR)	EvPriority (NBR)
TR #1	1800	5CB7	5CB8	6A0C	5CB9	5CBA	6A0D	5CBB	5CBC	6A0E	5DD7	6A0F	1100	7344	7345

## Voltage Selection Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers				Setup Registers	
		V1 (NVR)	V2 (NVR)	V3 (NVR)	V avg (NVR)	V2 Behavior (ENR)	Use V1 Always (ENR)
VSL #1	2080	4F57	4F59	4F5B	4F5D	7DEE	7DF0
VSL #2	2081	4F58	4F5A	4F5C	4F5E	7DEF	7DF1

## Waveform Recorder Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers				
		Recorder Log (LR)	Log State (BVR)	Records Left (NVR)	Record Complete (PR)	Event (EVR)	Depth (NBR)	Recorder Mode (ENR)	Format (ENR)	Event Log Mode (ENR)	Trigger Delay (NBR)
RECW #1	880	0F94	60C3	5CD1	6A38	1100	71B0	792C	7938	N/A	736E
RECW #2	0881	0F95	60C4	5CD2	6A39	1100	71B1	792D	7939	N/A	736F
RECW #3	0882	0F96	60C5	5CD3	6A3A	1100	71B2	792E	793A	N/A	7370
RECW #4	0883	0F97	60C6	5CD4	6A3B	1100	71B3	792F	793B	N/A	7371
RECW #5	0884	0F98	60C7	5CD5	6A3C	1100	71B4	7930	793C	N/A	7372
RECW #6	0885	0F99	60C8	5CD6	6A3D	1100	71B5	7931	793D	N/A	7373
RECW #7	0886	0F9A	60C9	5CD7	6A3E	1100	71B6	7932	793E	N/A	7374
RECW #8	0887	0F9B	60CA	5CD8	6A3F	1100	71B7	7933	793F	N/A	7375
RECW #9	0888	0F9C	60CB	5CD9	6A40	1100	71B8	7934	7940	N/A	7376
RECW #10	0889	0F9D	60CC	5CDA	6A41	1100	71B9	7935	7941	N/A	7377
RECW #11	088A	0F9E	60CD	5CDB	6A42	1100	71BA	7936	7942	N/A	7378
RECW #12	088B	0F9F	60CE	5CDC	6A43	1100	71BB	7937	7943	N/A	7379

### 2 Additional Waveform Recorders added Nov/95

RECW #13	088C	0FA0	60CF	5CDD	6A44	1100	7212	7A45	7A47	N/A	737A
RECW #14	088D	0FA1	60D0	5CDE	6A45	1100	7213	7A46	7A48	N/A	737B

## Waveform Recorder Modules -- Handle Map

(all Handles in Hex)

Module Name	Module Handle	Output Registers					Setup Registers				
		Recorder Log (LR)	Log State (BVR)	Records Left (NVR)	Record Complete (PR)	Event (EVR)	Depth (NBR)	Recorder Mode (ENR)	Format (ENR)	Event Log Mode (ENR)	Trigger Delay (NBR)

6 Waveform Recorders added MET May 5, 2000

RECW #15	0E80	0FC0	6396	3E7D	6FC8	1100	42A2	7E65	7E6B	N/A	42A8
RECW #16	0E81	0FC1	6397	3E7E	6FC9	1100	42A3	7E66	7E6C	N/A	42A9
RECW #17	0E82	0FC2	6398	3E7F	6FCA	1100	42A4	7E67	7E6D	N/A	42AA
RECW #18	0E83	0FC3	6399	3E80	6FCB	1100	42A5	7E68	7E6E	N/A	42AB
RECW #19	0E84	0FC4	639A	3E81	6FCC	1100	42A6	7E69	7E6F	N/A	42AC
RECW #20	0E85	0FC5	639B	3E82	6FCD	1100	42A7	7E6A	7E70	N/A	42AD