

## **Ordinal Points Assignments**

**For  
Communications Protocol 2179**

**For Use With Cooper Power Systems  
CL-6 Series Regulator Controls**



# **CL-6A**

## **2179 Protocol - Ordinal Point Assignments**

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INPUT SUBSYSTEM			
Binary Input Status			
Simple Status Sequence	BITSTRING	Description	Index
48 (0x30)	Bit 0	BANDWIDTH LOW	0
	Bit 1	BANDWIDTH HIGH	1
	Bit 2	VOLTAGE LIMITING LOW	2
	Bit 3	VOLTAGE LIMITING HIGH	3
	Bit 4	VOLTAGE REDUCTION ACTIVE	4
	Bit 5	RESERVED	5
	Bit 6	RESERVED	6
	Bit 7	RESERVED	7
	Bit 8	REGULATION STATE	8
	Bit 9	RESERVED	9
	Bit 10	POWER DIRECTION	10
	Bit 11	RESERVED	11
	Bit 12	RESERVED	12
	Bit 13	RESERVED	13
	Bit 14	RESERVED	14
	Bit 15	RESERVED	15
49 (0x31)	Bit 0	AUTO SWITCH	16
	Bit 1	RESERVED	17
	Bit 2	RESERVED	18
	Bit 3	SUPERVISORY STATE	19
	Bit 4	SOURCE VOLTAGE CALCULATION ENABLE	20
	Bit 5	RESERVED	21
	Bit 6	RESERVED	22
	Bit 7	RESERVED	23
	Bit 8	RESERVED	24
	Bit 9	RESERVED	25
	Bit 10	RESERVED	26
	Bit 11	RESERVED	27
	Bit 12	RESERVED	28
	Bit 13	RESERVED	29
	Bit 14	RESERVED	30
	Bit 15	RESERVED	31
50 (0x32)	Bit 0	HMI TAP RAISE SWITCH	32
	Bit 1	HMI TAP LOWER SWITCH	33
	Bit 2	HMI SUPERVISORY SWITCH	34
	Bit 3	HMI POWER SWITCH INTERNAL	35
	Bit 4	HMI POWER SWITCH EXTERNAL	36
	Bit 5	HMI AUTO-OFF-MANUAL SWITCH MANUAL	37
	Bit 6	HMI AUTO-OFF-MANUAL SWITCH OFF	38
	Bit 7	HMI DRAG HAND RESET ON	39
	Bit 8	HMI NEUTRAL POSITION INDICATION	40
	Bit 9	BLOCKING RELAY ACTIVE	41
	Bit 10	RESERVED	42
	Bit 11	DISCRETE INPUT 1	43
	Bit 12	DISCRETE INPUT 2	44
	Bit 13	DISCRETE INPUT 3	45
	Bit 14	DISCRETE INPUT 4	46
	Bit 15	RESERVED	47
51 (0x33)	Bit 0	USER LED	48
	Bit 1	DISCRETE OUTPUT 1	49
	Bit 2	DISCRETE OUTPUT 2	50
	Bit 3	DISCRETE OUTPUT 3	51
	Bit 4	DISCRETE OUTPUT 4	52
	Bit 5	PIO TAP RAISE	53
	Bit 6	PIO TAP LOWER	54
	Bit 7	RESERVED	55
	Bit 8	USER EQUATION 17	56
	Bit 9	USER EQUATION 18	57
	Bit 10	USER EQUATION 19	58
	Bit 11	USER EQUATION 20	59
	Bit 12	INTERVAL OPERATIONS COUNTERS ACTIVE	60
	Bit 13	TAP TO NEUTRAL	61
	Bit 14	PMT MODE A ENABLED	62
	Bit 15	PMT MODE B ENABLED	63

INPUT SUBSYSTEM			
Binary Input Status (Continued)			
Simple Status Sequence	BITSTRING	Description	Index
52 (0x34)	Bit 0	USER EQUATION 01	64
	Bit 1	USER EQUATION 02	65
	Bit 2	USER EQUATION 03	66
	Bit 3	USER EQUATION 04	67
	Bit 4	USER EQUATION 05	68
	Bit 5	USER EQUATION 06	69
	Bit 6	USER EQUATION 07	70
	Bit 7	USER EQUATION 08	71
	Bit 8	USER EQUATION 09	72
	Bit 9	USER EQUATION 10	73
	Bit 10	USER EQUATION 11	74
	Bit 11	USER EQUATION 12	75
	Bit 12	USER EQUATION 13	76
	Bit 13	USER EQUATION 14	77
	Bit 14	USER EQUATION 15	78
	Bit 15	USER EQUATION 16	79
53 (0x35)	Bit 0	EVENT RECORDER ENABLED	80
	Bit 1	HISTOGRAMS ENABLED	81
	Bit 2	DATA ALARMS ENABLED	82
	Bit 3	STATUS ALARMS ENABLED	83
	Bit 4	PROFILER ENABLED	84
	Bit 5	EVENT RECORDER PIO ENABLED	85
	Bit 6	HISTOGRAMS PIO ENABLED	86
	Bit 7	DATA ALARMS PIO ENABLED	87
	Bit 8	STATUS ALARMS PIO ENABLED	88
	Bit 9	PROFILER PIO ENABLED	89
	Bit 10	USER INTERMEDIATE EQUATION 01	90
	Bit 11	USER INTERMEDIATE EQUATION 02	91
	Bit 12	USER INTERMEDIATE EQUATION 03	92
	Bit 13	USER INTERMEDIATE EQUATION 04	93
	Bit 14	USER INPUT 01	94
Bit 15	USER INPUT 02	95	
54 (0x36)	Bit 0	USER INPUT 03	96
	Bit 1	USER INPUT 04	97
	Bit 2	USER INPUT 05	98
	Bit 3	USER INPUT 06	99
	Bit 4	USER INPUT 07	100
	Bit 5	USER INPUT 08	101
	Bit 6	USER INPUT 09	102
	Bit 7	USER INPUT 10	103
	Bit 8	USER INPUT 11	104
	Bit 9	USER INPUT 12	105
	Bit 10	USER INPUT 13	106
	Bit 11	USER INPUT 14	107
	Bit 12	USER INPUT 15	108
	Bit 13	USER INPUT 16	109
	Bit 14	USER INPUT 17	110
Bit 15	USER INPUT 18	111	
55 (0x37)	Bit 0	USER INPUT 19	112
	Bit 1	USER INPUT 20	113
	Bit 2	USER INPUT 21	114
	Bit 3	USER INPUT 22	115
	Bit 4	USER INPUT 23	116
	Bit 5	USER INPUT 24	117
	Bit 6	USER INPUT 25	118
	Bit 7	USER INPUT 26	119
	Bit 8	USER INPUT 27	120
	Bit 9	USER INPUT 28	121
	Bit 10	USER INPUT 29	122
	Bit 11	USER INPUT 30	123
	Bit 12	USER INPUT 31	124
	Bit 13	USER INPUT 32	125
Bit 14	ALARM LED	126	
Bit 15	WARNING LED	127	

INPUT SUBSYSTEM			
Binary Input Status (Continued)			
Simple Status Sequence	BITSTRING	Description	Index
56 (0x38)	Bit 0	DIAGNOSTIC ERROR LED	128
	Bit 1	VOLTAGE LIMITER HIGH LED	129
	Bit 2	OUT OF BAND HIGH LED	130
	Bit 3	OUT OF BAND LOW LED	131
	Bit 4	VOLTAGE LIMITER LOW LED	132
	Bit 5	TAPPING BLOCKED LED	133
	Bit 6	REVERSE POWER LED	134
	Bit 7	VOLTAGE REDUCTION LED	135
	Bit 8	RESERVED	136
	Bit 9	RESERVED	137
	Bit 10	RESERVED	138
	Bit 11	RESERVED	139
	Bit 12	RESERVED	140
	Bit 13	RESERVED	141
	Bit 14	RESERVED	142
	Bit 15	RESERVED	143

## INPUT SUBSYSTEM

## Counters

Sequence	Index	Description
64 (0x40)	0	RESERVED
65 (0x41)	1	RESERVED
66 (0x42)	2	OPERATIONS COUNTER 100S
67 (0x43)	3	OPERATIONS COUNTER 10S AND 1S
68 (0x44)	4	OPERATIONS DURING PAST 24 HOURS
69 (0x45)	5	OPERATIONS DURING PAST 30 DAYS
70 (0x46)	6	OPERATIONS SINCE BEGINNING OF MONTH
71 (0x47)	7	OPERATIONS DURING LAST CALENDAR MONTH
72 (0x48)	8	OPERATIONS SINCE BEGINNING OF YEAR
73 (0x49)	9	OPERATIONS DURING LAST CALENDAR YEAR
74 (0x4A)	10	RESERVED
75 (0x4B)	11	TPI NEUTRAL RESYNCH COUNTER
76 (0x4C)	12	TAPS PAST 16R COUNTER
77 (0x4D)	13	TAPS PAST 16L COUNTER
78 (0x4E)	14	RESERVED
79 (0x4F)	15	RESERVED
80 (0x50)	16	COM1 MSG RX COUNTER
81 (0x51)	17	COM2 MSG RX COUNTER
82 (0x52)	18	COM1 MSG TX COUNTER
83 (0x53)	19	COM2 MSG TX COUNTER
84 (0x54)	20	COM1 MSG ERROR STATUS
85 (0x55)	21	COM2 MSG ERROR STATUS
86 (0x56)	22	COM1 FRAMING ERRORS COUNTER
87 (0x57)	23	COM2 FRAMING ERRORS COUNTER

INPUT SUBSYSTEM			
Analog Input Data (All data is signed 16-bit integer format)			
Sequence	Index	Scale Factor	Description
128 (0x80)	0	1	RESERVED
129 (0x81)	1	1	RESERVED
130 (0x82)	2	1	RESERVED
131 (0x83)	3	10	LOAD CURRENT, PRIMARY
132 (0x84)	4	10	LOAD VOLTAGE, SECONDARY
133 (0x85)	5	100	LOAD VOLTAGE, PRIMARY
134 (0x86)	6	10	SOURCE VOLTAGE, SECONDARY
135 (0x87)	7	100	SOURCE VOLTAGE, PRIMARY
136 (0x88)	8	1	KVA LOAD
137 (0x89)	9	1	KVAR LOAD
138 (0x8A)	10	1	KW LOAD
139 (0x8B)	11	100	POWER FACTOR
140 (0x8C)	12	10	PERCENT REGULATION
141 (0x8D)	13	10	COMPENSATED VOLTAGE, SECONDARY
142 (0x8E)	14	10	VOLTAGE HARMONIC 3rd
143 (0x8F)	15	10	VOLTAGE HARMONIC 5th
144 (0x90)	16	10	VOLTAGE HARMONIC 7th
145 (0x91)	17	10	VOLTAGE HARMONIC 9th
146 (0x92)	18	10	VOLTAGE HARMONIC 11th
147 (0x93)	19	10	CURRENT HARMONIC 3rd
148 (0x94)	20	10	CURRENT HARMONIC 5th
149 (0x95)	21	10	CURRENT HARMONIC 7th
150 (0x96)	22	10	CURRENT HARMONIC 9th
151 (0x97)	23	10	CURRENT HARMONIC 11th
152 (0x98)	24	10	FREQUENCY
153 (0x99)	25	10	FORWARD DEMAND LOAD CURRENT, PRIMARY
154 (0x9A)	26	1	FORWARD DEMAND KVA LOAD
155 (0x9B)	27	1	FORWARD DEMAND KVAR LOAD
156 (0x9C)	28	1	FORWARD DEMAND KW LOAD
157 (0x9D)	29	10	FORWARD DEMAND LOAD VOLTAGE, SECONDARY
158 (0x9E)	30	10	FWD DEMAND COMPENSATED VOLTAGE, SECONDARY
159 (0x9F)	31	10	REVERSE DEMAND LOAD CURRENT, PRIMARY
160 (0xA0)	32	10	REVERSE DEMAND KVA LOAD
161 (0xA1)	33	10	REVERSE DEMAND KVAR LOAD
162 (0xA2)	34	10	REVERSE DEMAND KW LOAD
163 (0xA3)	35	10	REVERSE DEMAND LOAD VOLTAGE, SECONDARY
164 (0xA4)	36	10	REV DEMAND COMPENSATED VOLTAGE, SECONDARY
165 (0xA5)	37	10	CALCULATED MOTOR VOLTAGE
166 (0xA6)	38	10	PERCENT VOLTAGE REDUCTION IN EFFECT
167 (0xA7)	39	1	TAP POSITION
168 (0xA8)	40	10	VOLTAGE HARMONIC 13th
169 (0xA9)	41	10	CURRENT HARMONIC 13th
170 (0xAA)	42	10	TOTAL VOLTAGE HARMONIC DISTORTION
171 (0xAB)	43	10	TOTAL CURRENT HARMONIC DISTORTION
172 (0xAC)	44	10	FORWARD DEMAND SOURCE VOLTAGE, SECONDARY
173 (0xAD)	45	10	REVERSE DEMAND SOURCE VOLTAGE, SECONDARY
174 (0xAE)	46	10	VOLTAGE HARMONIC 2nd
175 (0xAF)	47	10	VOLTAGE HARMONIC 4th
176 (0xB0)	48	10	VOLTAGE HARMONIC 6th
177 (0xB1)	49	10	VOLTAGE HARMONIC 8th
178 (0xB2)	50	10	VOLTAGE HARMONIC 10th
179 (0xB3)	51	10	VOLTAGE HARMONIC 12th
180 (0xB4)	52	10	VOLTAGE HARMONIC 14th
181 (0xB5)	53	10	VOLTAGE HARMONIC 15th
182 (0xB6)	54	10	CURRENT HARMONIC 2nd
183 (0xB7)	55	10	CURRENT HARMONIC 4th
184 (0xB8)	56	10	CURRENT HARMONIC 6th
185 (0xB9)	57	10	CURRENT HARMONIC 8th
186 (0xBA)	58	10	CURRENT HARMONIC 10th
187 (0xBB)	59	10	CURRENT HARMONIC 12th
188 (0xBC)	60	10	CURRENT HARMONIC 14th
189 (0xBD)	61	10	CURRENT HARMONIC 15th
190 (0xBE)	62	100	FORWARD KW HOURS
191 (0xBF)	63	100	FORWARD KQ HOURS
192 (0xC0)	64	100	REVERSE KW HOURS
193 (0xC1)	65	100	REVERSE KQ HOURS



OUTPUT SUBSYSTEM			
Select-Before-Operate (SBO) Operations			
Sequence	Description	Index	Valid Commands
0 (0x0)	RAISE TAP	0	Close
1 (0x1)	LOWER TAP	1	Close
2 (0x2)	BLOCK REGULATION	2	Close and Open
3 (0x3)	SOURCE SIDE VOLTAGE CALCULATION	3	Close and Open
4 (0x4)	TOTAL OPERATIONS COUNTER ENABLE	4	Close and Open
5 (0x5)	RESET TOTAL OPERATIONS COUNTER	5	Close
6 (0x6)	INTERVAL OPERATIONS COUNTERS ENABLE	6	Close and Open
7 (0x7)	RESET OPS MONTH OPERATIONS COUNTER	7	Close
8 (0x8)	RESET OPS YEAR OPERATIONS COUNTER	8	Close
9 (0x9)	RESET 24HR OPERATIONS COUNTER	9	Close
10 (0xA)	RESET 30DY OPERATIONS COUNTER	10	Close
11 (0xB)	RESET LAST MONTH OPERATIONS COUNTER	11	Close
12 (0xC)	RESET TPI NEUTRAL RESYNCH COUNTER	12	Close
13 (0xD)	RESET LAST YEAR OPERATIONS COUNTER	13	Close
14 (0xE)	ENABLE TAPS PAST 16L COUNTER	14	Close and Open
15 (0xF)	RESET TAPS PAST 16L COUNTER	15	Close
16 (0x10)	ENABLE TAPS PAST 16R COUNTER	16	Close and Open
17 (0x11)	RESET TAPS PAST 16R COUNTER	17	Close
18 (0x12)	RESET TAP POSITION INDICATION RESYNCH COUNTER	18	Close
19 (0x13)	RESERVED	19	Close
20 (0x14)	TAP POSITION INDICATOR DRAGHAND RESET	20	Close
21 (0x15)	RESET TIME ON TAP	21	Close
22 (0x16)	RESERVED	22	Close
23 (0x17)	RESERVED	23	Close
24 (0x18)	RESERVED	24	Close
25 (0x19)	RESERVED	25	Close
26 (0x1A)	RESET MSG RX COM1 COUNTER	26	Close
27 (0x1B)	RESET MSG RX COM2 COUNTER	27	Close
28 (0x1C)	RESET MSG TX COM1 COUNTER	28	Close
29 (0x1D)	RESET MSG TX COM2 COUNTER	29	Close
30 (0x1E)	RESET MSG ERRORS COM1 STATUS	30	Close
31 (0x1F)	RESET MSG ERRORS COM2 STATUS	31	Close
32 (0x20)	RESET FRAME ERRORS COM1 COUNTER	32	Close
33 (0x21)	RESET FRAME ERRORS COM2 COUNTER	33	Close
34 (0x22)	RESERVED	34	Close and Open
35 (0x23)	RESERVED	35	Close and Open
36 (0x24)	METERING RESET KWHR FWD	36	Close
37 (0x25)	METERING RESET KWHR REV	37	Close
38 (0x26)	METERING RESET KQHR FWD	38	Close
39 (0x27)	METERING RESET KQHR REV	39	Close
40 (0x28)	METERING RESET ENERGY ALL	40	Close
41 (0x29)	DEMAND RESET ALL	41	Close
42 (0x2A)	EVENT RECORDER ENABLE	42	Close and Open
43 (0x2B)	EVENT RECORDER MASK ALL	43	Close
44 (0x2C)	EVENT RECORDER UNMASK ALL	44	Close
45 (0x2D)	EVENT RECORDER READ FIRST	45	Close
46 (0x2E)	EVENT RECORDER READ NEXT	46	Close
47 (0x2F)	DATA PROFILER ENABLE	47	Close and Open
48 (0x30)	DATA PROFILER MASK ALL	48	Close
49 (0x31)	DATA PROFILER UNMASK ALL	49	Close
50 (0x32)	DATA PROFILER READ FIRST	50	Close
51 (0x33)	DATA PROFILER READ NEXT	51	Close
52 (0x34)	RESERVED	52	Close
53 (0x35)	DATA PROFILER TAKE SNAPSHOT	53	Close
54 (0x36)	HISTOGRAM ENABLE	54	Close and Open
55 (0x37)	HISTOGRAM MASTER CLEAR	55	Close
56 (0x38)	HISTOGRAM ACTIVE CLEAR	56	
57 (0x39)	RESERVED	57	Close and Open
58 (0x3A)	RESERVED	58	Close and Open
59 (0x3B)	RESERVED	59	Close and Open
60 (0x3C)	ERROR RECORDER MASK ALL	60	Close
61 (0x3D)	ERROR RECORDER UNMASK ALL	61	Close
62 (0x3E)	ERROR RECORDER READ FIRST	62	Close
63 (0x3F)	ERROR RECORDER READ NEXT	63	Close

OUTPUT SUBSYSTEM			
Select-Before-Operate (SBO) Operations			
Sequence	Description	Index	Valid Commands
64 (0x40)	USER INPUT 01	64	Close
65 (0x41)	USER INPUT 02	65	Close
66 (0x42)	USER INPUT 03	66	Close
67 (0x43)	USER INPUT 04	67	Close
68 (0x44)	USER INPUT 05	68	Close
69 (0x45)	USER INPUT 06	69	Close
70 (0x46)	USER INPUT 07	70	Close
71 (0x47)	USER INPUT 08	71	Close
72 (0x48)	USER INPUT 09	72	Close
73 (0x49)	USER INPUT 10	73	Close
74 (0x4A)	USER INPUT 11	74	Close
75 (0x4B)	USER INPUT 12	75	Close
76 (0x4C)	USER INPUT 13	76	Close
77 (0x4D)	USER INPUT 14	77	Close
78 (0x4E)	USER INPUT 15	78	Close
79 (0x4F)	USER INPUT 16	79	Close
80 (0x50)	USER INPUT 17	80	Close
81 (0x51)	USER INPUT 18	81	Close
82 (0x52)	USER INPUT 19	82	Close
83 (0x53)	USER INPUT 20	83	Close
84 (0x54)	USER INPUT 21	84	Close
85 (0x55)	USER INPUT 22	85	Close
86 (0x56)	USER INPUT 23	86	Close
87 (0x57)	USER INPUT 24	87	Close
88 (0x58)	USER INPUT 25	88	Close
89 (0x59)	USER INPUT 26	89	Close
90 (0x5A)	USER INPUT 27	90	Close
91 (0x5B)	USER INPUT 28	91	Close
92 (0x5C)	USER INPUT 29	92	Close
93 (0x5D)	USER INPUT 30	93	Close
94 (0x5E)	USER INPUT 31	94	Close
95 (0x5F)	USER INPUT 32	95	Close
96 (0x60)	PMT MODE A TEST	96	Close
97 (0x61)	PMT MODE B TEST	97	Close
98 (0x62)	ALARM RECORDER SUPPRESS ALL	98	Close
99 (0x63)	ALARM RECORDER UNSUPPRESS ALL	99	Close
100 (0x64)	ALARM RECORDER ALL OPERATION MODES OFF	100	Close and Open
101 (0x65)	ALARM RECORDER QUERY USER	101	Close
102 (0x66)	ALARM RECORDER QUERY ALL REGISTERED	102	Close
103 (0x67)	ALARM RECORDER QUERY ACTIVE HIGH PRIORITY	103	Close
104 (0x68)	ALARM RECORDER QUERY ACTIVE LOW AND HIGH PRIORITY	104	Close
105 (0x69)	ALARM RECORDER QUERY ACTIVE	105	Close
106 (0x6A)	ALARM RECORDER QUERY SUPPRESSED	106	Close
107 (0x6B)	ALARM RECORDER DATA ALARMS ENABLE	107	Close and Open
108 (0x6C)	ALARM RECORDER STATUS ALARMS ENABLE	108	Close and Open
109 (0x6D)	CL DELETE ACTIVE FORM	109	Close

ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 5			
Offset	Scale Factor	Description	Data Type
0000	100	FIRMWARE VERSION	UNSIGNED WORD
0002	1	RESERVED	UNSIGNED WORD
0004	10	USER MEASURED V	UNSIGNED WORD
0006	10	USER MEASURED IOUT	UNSIGNED WORD
0008	1	DATE OPERATIONS COUNT SET	UNSIGNED WORD
0010	1	TIME OPERATIONS COUNT SET	UNSIGNED WORD
0012	1	ERROR SYS MASKED REC COUNT	UNSIGNED WORD
0014	1	ERROR SYS UNMASKED REC COUNT	UNSIGNED WORD
0016	1	ERROR EVENT RECORDER MASKED REC COUNT	UNSIGNED WORD
0018	1	ERROR EVENT RECORDER UNMASKED REC COUNT	UNSIGNED WORD
0020	1	ERROR PROFILER MASKED REC COUNT	UNSIGNED WORD
0022	1	ERROR PROFILER UNMASKED REC COUNT	UNSIGNED WORD
0024	1	ERROR TIME DAYS	UNSIGNED WORD
0026	1	ERROR TIME MSECS	UNSIGNED LONG
0030	1	ERROR TIME STS	6 BYTE STRING
0036	1	ERROR ID	UNSIGNED WORD
0038	1	ERROR CAUSE	UNSIGNED WORD
0040	1	ERROR DATA SIZE	UNSIGNED WORD
0042	1	ERROR DATA TYPE	UNSIGNED WORD
0044	1	ERROR DATA	512 BYTE STRING
0556	1	HISTOGRAM ACTIVE COUNTUNDER	UNSIGNED WORD
0558	1	HISTOGRAM ACTIVE COUNT BIN01	UNSIGNED WORD
0560	1	HISTOGRAM ACTIVE COUNT BIN02	UNSIGNED WORD
0562	1	HISTOGRAM ACTIVE COUNT BIN03	UNSIGNED WORD
0564	1	HISTOGRAM ACTIVE COUNT BIN04	UNSIGNED WORD
0566	1	HISTOGRAM ACTIVE COUNT BIN05	UNSIGNED WORD
0568	1	HISTOGRAM ACTIVE COUNT BIN06	UNSIGNED WORD
0570	1	HISTOGRAM ACTIVE COUNT BIN07	UNSIGNED WORD
0572	1	HISTOGRAM ACTIVE COUNT BIN08	UNSIGNED WORD
0574	1	HISTOGRAM ACTIVE COUNT BIN09	UNSIGNED WORD
0576	1	HISTOGRAM ACTIVE COUNT BIN10	UNSIGNED WORD
0578	1	HISTOGRAM ACTIVE COUNTOVER	UNSIGNED WORD
0580	100	HISTOGRAM ACTIVE MAX VALUE	SIGNED LONG
0584	1	HISTOGRAM ACTIVE MAX DAYS	UNSIGNED WORD
0586	1	HISTOGRAM ACTIVE MAX MSECS	UNSIGNED LONG
0590	100	HISTOGRAM ACTIVE MIN VALUE	SIGNED LONG
0594	1	HISTOGRAM ACTIVE MIN DAYS	UNSIGNED WORD
0596	1	HISTOGRAM ACTIVE MIN MSECS	UNSIGNED LONG
0600	1	HISTOGRAM ACTIVE RESET DAYS	UNSIGNED WORD
0602	1	HISTOGRAM ACTIVE RESET MSECS	UNSIGNED LONG
0606	1	OPERATIONS COUNT LAST CHNG STS	6 BYTE STRING
0612	1	OPERATIONS 24HR COUNT STS	6 BYTE STRING
0618	1	OPERATIONS 30DY COUNT STS	6 BYTE STRING
0624	1	OPERATIONS MONTH COUNT STS	6 BYTE STRING
0630	1	OPERATIONS YEAR COUNT STS	6 BYTE STRING
0636	1	OPERATIONS LAST MONTH COUNT STS	6 BYTE STRING
0642	1	OPERATIONS LAST YEAR COUNT STS	6 BYTE STRING
0648	1	TIME ON 16L	6 BYTE STRING
0654	1	TIME ON 15L	6 BYTE STRING
0660	1	TIME ON 14L	6 BYTE STRING
0666	1	TIME ON 13L	6 BYTE STRING
0672	1	TIME ON 12L	6 BYTE STRING
0678	1	TIME ON 11L	6 BYTE STRING
0684	1	TIME ON 10L	6 BYTE STRING
0690	1	TIME ON 09L	6 BYTE STRING
0696	1	TIME ON 08L	6 BYTE STRING
0702	1	TIME ON 07L	6 BYTE STRING
0708	1	TIME ON 06L	6 BYTE STRING
0714	1	TIME ON 05L	6 BYTE STRING
0720	1	TIME ON 04L	6 BYTE STRING
0726	1	TIME ON 03L	6 BYTE STRING
0732	1	TIME ON 02L	6 BYTE STRING
0738	1	TIME ON 01L	6 BYTE STRING
0744	1	TIME ON NEUTRAL	6 BYTE STRING
0750	1	TIME ON 01R	6 BYTE STRING

ORDINAL BLOCK SUBSYSTEM  
Ordinal Block 5

Offset	Scale Factor	Description	Data Type
0756	1	TIME ON 02R	6 BYTE STRING
0762	1	TIME ON 03R	6 BYTE STRING
0768	1	TIME ON 04R	6 BYTE STRING
0774	1	TIME ON 05R	6 BYTE STRING
0780	1	TIME ON 06R	6 BYTE STRING
0786	1	TIME ON 07R	6 BYTE STRING
0792	1	TIME ON 08R	6 BYTE STRING
0798	1	TIME ON 09R	6 BYTE STRING
0804	1	TIME ON 10R	6 BYTE STRING
0810	1	TIME ON 11R	6 BYTE STRING
0816	1	TIME ON 12R	6 BYTE STRING
0822	1	TIME ON 13R	6 BYTE STRING
0828	1	TIME ON 14R	6 BYTE STRING
0834	1	TIME ON 15R	6 BYTE STRING
0840	1	TIME ON 16R	6 BYTE STRING
0846	1	ALARM RECORDER IUU COUNT	UNSIGNED WORD
0848	1	ALARM RECORDER IUC COUNT	UNSIGNED WORD
0850	1	ALARM RECORDER ISU COUNT	UNSIGNED WORD
0852	1	ALARM RECORDER ISC COUNT	UNSIGNED WORD
0854	1	ALARM RECORDER AUU COUNT	UNSIGNED WORD
0856	1	ALARM RECORDER AUC COUNT	UNSIGNED WORD
0858	1	ALARM RECORDER ASU COUNT	UNSIGNED WORD
0860	1	ALARM RECORDER ASC COUNT	UNSIGNED WORD
0862	1	ALARM RECORDER ACTIVE COUNT	UNSIGNED WORD
0864	1	ALARM RECORDER SUPPRESSED COUNT	UNSIGNED WORD
0866	1	ALARM RECORDER CHANGED COUNT	UNSIGNED WORD
0868	1	ALARM RECORDER REGISTERED COUNT	UNSIGNED WORD
0870	1	ALARM RECORDER RPT COUNT	UNSIGNED WORD
0872	1	ALARM RECORDER RPT ACTIVE ID	UNSIGNED WORD
0874	1	ALARM RECORDER RPT ACTIVE PRIORITY	UNSIGNED BYTE
0875	1	ALARM RECORDER RPT ACTIVE ON DAYS	UNSIGNED WORD
0877	1	ALARM RECORDER RPT ACTIVE ON MSECS	UNSIGNED LONG
0881	1	ALARM RECORDER RPT ACTIVE OFF DAYS	UNSIGNED WORD
0883	1	ALARM RECORDER RPT ACTIVE OFF MSECS	UNSIGNED LONG
0887	100	UNUSED	UNSIGNED BYTE
0888	1	TAP POSITION MAX DAYS	UNSIGNED WORD
0890	1	TAP POSITION MAX MSECS	UNSIGNED LONG
0894	1	TAP POSITION MIN DAYS	UNSIGNED WORD
0896	1	TAP POSITION MIN MSECS	UNSIGNED LONG
0900	1	FORWARD DEMAND LOAD VOLTAGE SECONDARY MAX DAYS	UNSIGNED WORD
0902	1	FORWARD DEMAND LOAD VOLTAGE SECONDARY MAX MSECS	UNSIGNED LONG
0906	1	FORWARD DEMAND LOAD VOLTAGE SECONDARY MIN DAYS	UNSIGNED WORD
0908	1	FORWARD DEMAND LOAD VOLTAGE SECONDARY MIN MSECS	UNSIGNED LONG
0912	1	FORWARD DEMAND SOURCE VOLTAGE SECONDARY MAX DAYS	UNSIGNED WORD
0914	1	FORWARD DEMAND SOURCE VOLTAGE SECONDARY MAX MSECS	UNSIGNED LONG
0918	1	FORWARD DEMAND SOURCE VOLTAGE SECONDARY MIN DAYS	UNSIGNED WORD
0920	1	FORWARD DEMAND SOURCE VOLTAGE SECONDARY MIN MSECS	UNSIGNED LONG
0924	1	FORWARD DEMAND COMPENSATED VOLTAGE SECONDARYMAX DAYS	UNSIGNED WORD
0926	1	FORWARD DEMAND COMPENSATED VOLTAGE SECONDARYMAX MSECS	UNSIGNED LONG
0930	1	FORWARD DEMAND COMPENSATED VOLTAGE SECONDARYMIN DAYS	UNSIGNED WORD
0932	1	FORWARD DEMAND COMPENSATED VOLTAGE SECONDARYMIN MSECS	UNSIGNED LONG
0936	1	FORWARD DEMAND LOAD CURRENT PRIMARY MAX DAYS	UNSIGNED WORD
0938	1	FORWARD DEMAND LOAD CURRENT PRIMARY MAX MSECS	UNSIGNED LONG
0942	1	FORWARD DEMAND LOAD CURRENT PRIMARY MIN DAYS	UNSIGNED WORD
0944	1	FORWARD DEMAND LOAD CURRENT PRIMARY MIN MSECS	UNSIGNED LONG
0948	1	FORWARD DEMAND TOTAL CURRENT HARMONICS MAX DAYS	UNSIGNED WORD
0950	1	FORWARD DEMAND TOTAL CURRENT HARMONICS MAX MSECS	UNSIGNED LONG
0954	1	FORWARD DEMAND TOTAL CURRENT HARMONICS MIN DAYS	UNSIGNED WORD
0956	1	FORWARD DEMAND TOTAL CURRENT HARMONICS MIN MSECS	UNSIGNED LONG
0960	1	FORWARD DEMAND TOTAL VOLTAGE HARMONICS MAX DAYS	UNSIGNED WORD
0962	1	FORWARD DEMAND TOTAL VOLTAGE HARMONICS MAX MSECS	UNSIGNED LONG
0966	1	FORWARD DEMAND TOTAL VOLTAGE HARMONICS MIN DAYS	UNSIGNED WORD
0968	1	FORWARD DEMAND TOTAL VOLTAGE HARMONICS MIN MSECS	UNSIGNED LONG
0972	1	FORWARD DEMAND KVA LOAD MAX DAYS	UNSIGNED WORD
0974	1	FORWARD DEMAND KVA LOAD MAX MSECS	UNSIGNED LONG

ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 5			
Offset	Scale Factor	Description	Data Type
0978	1	FORWARD DEMAND KVA LOAD MIN DAYS	UNSIGNED WORD
0980	1	FORWARD DEMAND KVA LOAD MIN MSECS	UNSIGNED LONG
0984	1	FORWARD DEMAND KVAR LOAD MAX DAYS	UNSIGNED WORD
0986	1	FORWARD DEMAND KVAR LOAD MAX MSECS	UNSIGNED LONG
0990	1	FORWARD DEMAND KVAR LOAD MIN DAYS	UNSIGNED WORD
0992	1	FORWARD DEMAND KVAR LOAD MIN MSECS	UNSIGNED LONG
0996	1	FORWARD DEMAND KW LOAD MAX DAYS	UNSIGNED WORD
0998	1	FORWARD DEMAND KW LOAD MAX MSECS	UNSIGNED LONG
1002	1	FORWARD DEMAND KW LOAD MIN DAYS	UNSIGNED WORD
1004	1	FORWARD DEMAND KW LOAD MIN MSECS	UNSIGNED LONG
1008	1	REVERSE DEMAND LOAD VOLTAGE SECONDARY MAX DAYS	UNSIGNED WORD
1010	1	REVERSE DEMAND LOAD VOLTAGE SECONDARY MAX MSECS	UNSIGNED LONG
1014	1	REVERSE DEMAND LOAD VOLTAGE SECONDARY MIN DAYS	UNSIGNED WORD
1016	1	REVERSE DEMAND LOAD VOLTAGE SECONDARY MIN MSECS	UNSIGNED LONG
1020	1	REVERSE DEMAND SOURCE VOLTAGE SECONDARY MAX DAYS	UNSIGNED WORD
1022	1	REVERSE DEMAND SOURCE VOLTAGE SECONDARY MAX MSECS	UNSIGNED LONG
1026	1	REVERSE DEMAND SOURCE VOLTAGE SECONDARY MIN DAYS	UNSIGNED WORD
1028	1	REVERSE DEMAND SOURCE VOLTAGE SECONDARY MIN MSECS	UNSIGNED LONG
1032	1	REVERSE DEMAND COMPENSATED VOLTAGE SECONDARY MAX DAYS	UNSIGNED WORD
1034	1	REVERSE DEMAND COMPENSATED VOLTAGE SECONDARY MAX MSECS	UNSIGNED LONG
1038	1	REVERSE DEMAND COMPENSATED VOLTAGE SECONDARY MIN DAYS	UNSIGNED WORD
1040	1	REVERSE DEMAND COMPENSATED VOLTAGE SECONDARY MIN MSECS	UNSIGNED LONG
1044	1	REVERSE DEMAND LOAD CURRENT PRIMARY MAX DAYS	UNSIGNED WORD
1046	1	REVERSE DEMAND LOAD CURRENT PRIMARY MAX MSECS	UNSIGNED LONG
1050	1	REVERSE DEMAND LOAD CURRENT PRIMARY MIN DAYS	UNSIGNED WORD
1052	1	REVERSE DEMAND LOAD CURRENT PRIMARY MIN MSECS	UNSIGNED LONG
1056	1	REVERSE DEMAND KVA LOAD MAX DAYS	UNSIGNED WORD
1058	1	REVERSE DEMAND KVA LOAD MAX MSECS	UNSIGNED LONG
1062	1	REVERSE DEMAND KVA LOAD MIN DAYS	UNSIGNED WORD
1064	1	REVERSE DEMAND KVA LOAD MIN MSECS	UNSIGNED LONG
1068	1	REVERSE DEMAND KVAR LOAD MAX DAYS	UNSIGNED WORD
1070	1	REVERSE DEMAND KVAR LOAD MAX MSECS	UNSIGNED LONG
1074	1	REVERSE DEMAND KVAR LOAD MIN DAYS	UNSIGNED WORD
1076	1	REVERSE DEMAND KVAR LOAD MIN MSECS	UNSIGNED LONG
1080	1	REVERSE DEMAND KW LOAD MAX DAYS	UNSIGNED WORD
1082	1	REVERSE DEMAND KW LOAD MAX MSECS	UNSIGNED LONG
1086	1	REVERSE DEMAND KW LOAD MIN DAYS	UNSIGNED WORD
1088	1	REVERSE DEMAND KW LOAD MIN MSECS	UNSIGNED LONG
1092	1	POWER FACTOR AT FORWARD DEMAND KVA LOAD MAX DAYS	UNSIGNED WORD
1094	1	POWER FACTOR AT FORWARD DEMAND KVA LOAD MAX MSECS	UNSIGNED LONG
1098	1	POWER FACTOR AT FORWARD DEMAND KVA LOAD MIN DAYS	UNSIGNED WORD
1100	1	POWER FACTOR AT FORWARD DEMAND KVA LOAD MIN MSECS	UNSIGNED LONG
1104	1	POWER FACTOR AT DMDREV KVA LOAD MAX DAYS	UNSIGNED WORD
1106	1	POWER FACTOR AT DMDREV KVA LOAD MAX MSECS	UNSIGNED LONG
1110	1	POWER FACTOR AT DMDREV KVA LOAD MIN DAYS	UNSIGNED WORD
1112	1	POWER FACTOR AT DMDREV KVA LOAD MIN MSECS	UNSIGNED LONG
1116	1	PERCENT REGULATION MAX DAYS	UNSIGNED WORD
1118	1	PERCENT REGULATION MAX MSECS	UNSIGNED LONG
1122	1	PERCENT REGULATION MIN DAYS	UNSIGNED WORD
1124	1	PERCENT REGULATION MIN MSECS	UNSIGNED LONG
1128	1	REVERSE DEMAND TOTAL CURRENT HARMONICS MAX DAYS	UNSIGNED WORD
1130	1	REVERSE DEMAND TOTAL CURRENT HARMONICS MAX MSECS	UNSIGNED LONG
1134	1	REVERSE DEMAND TOTAL CURRENT HARMONICS MIN DAYS	UNSIGNED WORD
1136	1	REVERSE DEMAND TOTAL CURRENT HARMONICS MIN MSECS	UNSIGNED LONG
1140	1	REVERSE DEMAND TOTAL VOLTAGE HARMONICS MAX DAYS	UNSIGNED WORD
1142	1	REVERSE DEMAND TOTAL VOLTAGE HARMONICS MAX MSECS	UNSIGNED LONG
1146	1	REVERSE DEMAND TOTAL VOLTAGE HARMONICS MIN DAYS	UNSIGNED WORD
1148	1	REVERSE DEMAND TOTAL VOLTAGE HARMONICS MIN MSECS	UNSIGNED LONG
1152	1	OPERATIONS COUNT LAST CHNG	UNSIGNED LONG
1156	1	FIRMWARE VERSION STRING	20 BYTE STRING
1176	1	TAP POSITION NEUTRAL RESYNCH COUNTERS	6 BYTE STRING
1182	1	TAPS PAST 16R COUNT STS	6 BYTE STRING
1188	1	TAPS PAST 16L COUNT STS	6 BYTE STRING
1194	1	DCM CONTACT M1	FLOATING POINT
1198	1	DCM CONTACT M2	FLOATING POINT

ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 5			
Offset	Scale Factor	Description	Data Type
1202	1	DCM CONTACT M3	FLOATING POINT
1206	1	DCM CONTACT M4	FLOATING POINT
1210	1	DCM CONTACT SNA	FLOATING POINT
1214	1	DCM CONTACT SNB	FLOATING POINT
1218	1	DCM CONTACT S1A	FLOATING POINT
1222	1	DCM CONTACT S1B	FLOATING POINT
1226	1	DCM CONTACT S2A	FLOATING POINT
1230	1	DCM CONTACT S2B	FLOATING POINT
1234	1	DCM CONTACT S3A	FLOATING POINT
1238	1	DCM CONTACT S3B	FLOATING POINT
1242	1	DCM CONTACT S4A	FLOATING POINT
1246	1	DCM CONTACT S4B	FLOATING POINT
1250	1	DCM CONTACT S5A	FLOATING POINT
1254	1	DCM CONTACT S5B	FLOATING POINT
1258	1	DCM CONTACT S6A	FLOATING POINT
1262	1	DCM CONTACT S6B	FLOATING POINT
1266	1	DCM CONTACT S7A	FLOATING POINT
1270	1	DCM CONTACT S7B	FLOATING POINT
1274	1	DCM CONTACT S8A	FLOATING POINT
1278	1	DCM CONTACT S8B	FLOATING POINT

NOTE: DATA TYPE "FLOATING POINT" IS ACTUALLY A SINGLE PRECISION FLOATING POINT NUMBER DATA TYPE

ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 6			
Offset	Scale Factor	Description	Data Type
0000	10	DEMAND TIME INTERVAL	UNSIGNED WORD
0002	1	CT RATING	UNSIGNED WORD
0004	10	OVERALL PT RATIO	UNSIGNED WORD
0006	1	SYSTEM LINE VOLTAGE	UNSIGNED WORD
0008	10	REVERSE BANDWIDTH	UNSIGNED WORD
0010	10	REVERSE LINE DROP COMPENSATION REACTANCE	SIGNED WORD
0012	10	REVERSE LINE DROP COMPENSATION RESISTANCE	SIGNED WORD
0014	1	REVERSE SENSE MODE	UNSIGNED WORD
0016	10	REVERSE SET VOLTAGE	UNSIGNED WORD
0018	1	REVERSE TIME DELAY	UNSIGNED WORD
0020	1	REVERSE THRESHOLD	UNSIGNED WORD
0022	1	ID NUMBER	UNSIGNED WORD
0024	1	SECURITY CODE1	UNSIGNED WORD
0026	1	SECURITY CODE2	UNSIGNED WORD
0028	1	SECURITY CODE3	UNSIGNED WORD
0030	1	REGULATOR CONFIGURATION	UNSIGNED WORD
0032	10	FORWARD BANDWIDTH	UNSIGNED WORD
0034	10	FORWARD LINE DROP COMPENSATION REACTANCE	SIGNED WORD
0036	10	FORWARD LINE DROP COMPENSATION RESISTANCE	SIGNED WORD
0038	1	CONTROL OPERATING MODE	UNSIGNED WORD
0040	10	FORWARD SET VOLTAGE	UNSIGNED WORD
0042	1	FORWARD TIME DELAY	UNSIGNED WORD
0044	1	VOLTAGE LIMITING MODE	UNSIGNED WORD
0046	10	VOLTAGE LIMITING HIGH	UNSIGNED WORD
0048	10	VOLTAGE LIMITING LOW	UNSIGNED WORD
0050	1	VOLTAGE REDUCTION MODE	UNSIGNED WORD
0052	10	VOLTAGE REDUCTION PERCENT	UNSIGNED WORD
0054	10	ANALOG VOLTAGE REDUCTION SETTING #1	UNSIGNED WORD
0056	10	ANALOG VOLTAGE REDUCTION SETTING #2	UNSIGNED WORD
0058	10	ANALOG VOLTAGE REDUCTION SETTING #3	UNSIGNED WORD
0060	1	COM PORT 2 BAUD RATE	UNSIGNED WORD
0062	1	COM PORT 1 & 3 BAUD RATE	UNSIGNED WORD
0064	1	2179 COM2 SLAVE ADDRESS	UNSIGNED WORD
0066	1	HANDSHAKE MODE COM2	UNSIGNED WORD
0068	1	UNUSED	UNSIGNED WORD
0070	1	COM2 TX ENABLE ON DELAY	UNSIGNED WORD
0072	1	COM2 TX ENABLE OFF DELAY	UNSIGNED WORD
0074	1	UNUSED	UNSIGNED WORD
0076	1	UNUSED	UNSIGNED WORD
0078	1	UNUSED	UNSIGNED WORD
0080	1	UNUSED	UNSIGNED WORD
0082	1	ANALOG VOLTAGE REDUCTION STEP COUNT	UNSIGNED WORD
0084	10	VOLTAGE REDUCTION PER STEP	UNSIGNED WORD
0086	1	YEAR	UNSIGNED WORD
0088	1	SECURITY OVERRIDE	UNSIGNED WORD
0090	1	REGULATOR TYPE	UNSIGNED WORD
0092	1	TAP CHANGER TYPE	UNSIGNED WORD
0094	1	SOFTADDAMP STATE	UNSIGNED WORD
0096	1	SOFT ADD AMP HIGH LIMIT	UNSIGNED WORD
0098	1	SOFT ADD AMP LOW LIMIT	SIGNED WORD
0100	1	DATA PROFILER SAMPLE PERIOD	UNSIGNED WORD
0102	1	UNUSED	UNSIGNED WORD
0104	1	PROTOCOL COM2	UNSIGNED WORD
0106	1	PROTOCOL COM1	UNSIGNED WORD
0108	1	ADD AMP HIGH LIMIT	SIGNED WORD
0110	1	ADD AMP LOW LIMIT	SIGNED WORD
0112	1	UNUSED	SIGNED WORD
0114	1	ALARM RECORDER RPT CURRENT LINE	SIGNED WORD
0116	1	ALARM RECORDER CONFIG ACTIVE ID	SIGNED WORD
0118	1	ALARM RECORDER OP MODE	SIGNED WORD
0120	100	ALARM RECORDER DATA LIMIT	SIGNED WORD
0122	1	ALARM RECORDER EVENT OP MODE	SIGNED WORD
0124	1	ALARM RECORDER PROFILE OP MODE	SIGNED WORD
0126	1	ALARM RECORDER PRIORITY	SIGNED WORD
0128	1	ALARM RECORDER CHANGE DELAY SEC	SIGNED WORD
0130	1	ALARM RECORDER SUPPRESS ID	UNSIGNED WORD
0132	1	ALARM RECORDER UNSUPPRESS ID	UNSIGNED WORD
0134	1	ALARM RECORDER QUERY ACTIVITY STATE	UNSIGNED WORD
0136	1	ALARM RECORDER QUERY SUPPRESSION STATE	UNSIGNED WORD
0138	1	ALARM RECORDER QUERY CHANGE STATE	UNSIGNED WORD
0140	1	ALARM RECORDER QUERY PRIORITY LOW	UNSIGNED WORD

ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 6			
Offset	Scale Factor	Description	Data Type
0142	1	ALARM RECORDER QUERY PRIORITY HIGH	UNSIGNED WORD
0144	1	2179 DEFAULT PORT MAP	UNSIGNED WORD
0146	1	2179 COM1 SLAVE ADDRESS	UNSIGNED WORD
0148	1	2179 COM2 SLAVE ADDRESS	UNSIGNED WORD
0150	1	2179 COM1 MAP ID	UNSIGNED WORD
0152	1	2179 COM2 MAP ID	UNSIGNED WORD
0154	1	DNP DEFAULT MAP PORT	UNSIGNED WORD
0156	100	DNP TRANSMIT DELAY COM2	UNSIGNED WORD
0158	1	UNUSED	UNSIGNED WORD
0160	1	DNP LINK CONFIRM MODE COM2	UNSIGNED WORD
0162	100	DNP LINK CONFIRM TIMEOUT COM2	UNSIGNED WORD
0164	1	DNP LINK MAX RETRIES COM2	UNSIGNED WORD
0166	1	UNUSED	UNSIGNED WORD
0168	1	UNUSED	UNSIGNED WORD
0170	1	UNUSED	UNSIGNED WORD
0172	1	DNP LOGICAL DEVICE 1 UNSOLICITED PERMITTED COM2	UNSIGNED WORD
0174	10	DNP LOGICAL DEVICE 1 UNSOLICITED RETRY DELAY COM2	UNSIGNED WORD
0176	1	UNUSED	UNSIGNED WORD
0178	1	DNP LOGICAL DEVICE 1 MAP ID COM2	UNSIGNED WORD
0180	100	DNP TRANS DELAY COM1	UNSIGNED WORD
0182	1	UNUSED	UNSIGNED WORD
0184	1	DNP LINK CONFIRM MODE COM1	UNSIGNED WORD
0186	100	DNP LINK CONFIRM TIMEOUT COM1	UNSIGNED WORD
0188	1	DNP LINK MAX RETRIES COM1	UNSIGNED WORD
0190	1	UNUSED	UNSIGNED WORD
0192	1	UNUSED	UNSIGNED WORD
0194	1	UNUSED	UNSIGNED WORD
0196	1	DNP LOGICAL DEVICE 1 UNSOLICITED PERMITTED COM1	UNSIGNED WORD
0198	10	DNP LOGICAL DEVICE 1 UNSOLICITED RETRY DELAY COM1	UNSIGNED WORD
0200	1	UNUSED	UNSIGNED WORD
0202	1	DNP LOGICAL DEVICE 1 MAP ID COM1	UNSIGNED WORD
0204	1	PMT MODE A TIME DELAY	UNSIGNED WORD
0206	1	PMT MODE B TIME DELAY	UNSIGNED WORD
0208	1	PMT MODE B START TIME	UNSIGNED LONG
0212	1	PMT MODE B STOP TIME	UNSIGNED LONG
0216	1	PMT MODE B MAX DEV	UNSIGNED BYTE
0217	1	PMT MODE B I LIMIT	UNSIGNED BYTE
0218	1	PMT MODE B MASTER SLAVE	UNSIGNED BYTE
0219	1	PMT MODE A ENABLE	UNSIGNED BYTE
0220	1	PMT MODE B ENABLE	UNSIGNED BYTE
0221	1	UNUSED	5 BYTE STRING
0226	1	OPERATIONS COUNTER	UNSIGNED LONG
0230	1	DATA PROFILER DURATION	UNSIGNED WORD
0232	1	DATA PROFILER START TIME	UNSIGNED WORD
0234	1	DATA PROFILER START DATE	UNSIGNED WORD
0236	1	DATA PROFILER STOP DATE	UNSIGNED WORD
0238	1	DATA PROFILER SAMPLE PERIOD	UNSIGNED WORD
0240	1	UNUSED	13 BYTE STRING
0253	1	DATA PROFILER FORWARD DEMAND CURRENT PRIMARY LOAD DATA ENABLE	UNSIGNED BYTE
0254	1	DATA PROFILER REVERSE DEMAND CURRENT PRIMARY LOAD DATA ENABLE	UNSIGNED BYTE
0255	1	DATA PROFILER FORWARD DEMAND LOAD VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0256	1	DATA PROFILER REVERSE DEMAND LOAD VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0257	1	DATA PROFILER FORWARD DEMAND SOURCE VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0258	1	DATA PROFILER REVERSE DEMAND SOURCE VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0259	1	DATA PROFILER FORWARD DEMAND COMPENSATED VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0260	1	DATA PROFILER REVERSE DEMAND COMPENSATED VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0261	1	DATA PROFILER FORWARD DEMAND KVA LOAD ENABLE	UNSIGNED BYTE
0262	1	DATA PROFILER REVERSE DEMAND KVA LOAD ENABLE	UNSIGNED BYTE
0263	1	DATA PROFILER FORWARD DEMAND KW LOAD ENABLE	UNSIGNED BYTE
0264	1	DATA PROFILER REVERSE DEMAND KW LOAD ENABLE	UNSIGNED BYTE
0265	1	DATA PROFILER FORWARD DEMAND KVAR LOAD ENABLE	UNSIGNED BYTE
0266	1	DATA PROFILER REVERSE DEMAND KVAR LOAD ENABLE	UNSIGNED BYTE
0267	1	DATA PROFILER CURRENT PRIMARY LOAD DATA ENABLE	UNSIGNED BYTE
0268	1	DATA PROFILER LOAD VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0269	1	DATA PROFILER SOURCE VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0270	1	DATA PROFILER COMPENSATED VOLTAGE SECONDARY ENABLE	UNSIGNED BYTE
0271	1	DATA PROFILER LOAD VOLTAGE PRIMARY ENABLE	UNSIGNED BYTE
0272	1	DATA PROFILER SOURCE VOLTAGE PRIMARY ENABLE	UNSIGNED BYTE
0273	1	DATA PROFILER PRECENT REGULATION ENABLE	UNSIGNED BYTE
0274	1	DATA PROFILER POWER FACTOR ENABLE	UNSIGNED BYTE
0275	1	DATA PROFILER KVA LOAD ENABLE	UNSIGNED BYTE



ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 6			
Offset	Scale Factor	Description	Data Type
0276	1	DATA PROFILER KW LOAD ENABLE	UNSIGNED BYTE
0277	1	DATA PROFILER KVAR LOAD ENABLE	UNSIGNED BYTE
0278	1	DATA PROFILER KQH ENABLE	UNSIGNED BYTE
0279	1	DATA PROFILER KQH REVERSE ENABLE	UNSIGNED BYTE
0280	1	DATA PROFILER KWH ENABLE	UNSIGNED BYTE
0281	1	DATA PROFILER KWH REVERSE ENABLE	UNSIGNED BYTE
0282	1	DATA PROFILER FREQ ENABLE	UNSIGNED BYTE
0283	1	DATA PROFILER HARMONICS VOLTAGE TOTAL ENABLE	UNSIGNED BYTE
0284	1	DATA PROFILER HARMONICS VOLTAGE 2ND ENABLE	UNSIGNED BYTE
0285	1	DATA PROFILER HARMONICS VOLTAGE 3RD ENABLE	UNSIGNED BYTE
0286	1	DATA PROFILER HARMONICS VOLTAGE 4TH ENABLE	UNSIGNED BYTE
0287	1	DATA PROFILER HARMONICS VOLTAGE 5TH ENABLE	UNSIGNED BYTE
0288	1	DATA PROFILER HARMONICS VOLTAGE 6TH ENABLE	UNSIGNED BYTE
0289	1	DATA PROFILER HARMONICS VOLTAGE 7TH ENABLE	UNSIGNED BYTE
0290	1	DATA PROFILER HARMONICS VOLTAGE 8TH ENABLE	UNSIGNED BYTE
0291	1	DATA PROFILER HARMONICS VOLTAGE 9TH ENABLE	UNSIGNED BYTE
0292	1	DATA PROFILER HARMONICS VOLTAGE 10TH ENABLE	UNSIGNED BYTE
0293	1	DATA PROFILER HARMONICS VOLTAGE 11TH ENABLE	UNSIGNED BYTE
0294	1	DATA PROFILER HARMONICS VOLTAGE 12TH ENABLE	UNSIGNED BYTE
0295	1	DATA PROFILER HARMONICS VOLTAGE 13TH ENABLE	UNSIGNED BYTE
0296	1	DATA PROFILER HARMONICS VOLTAGE 14TH ENABLE	UNSIGNED BYTE
0297	1	DATA PROFILER HARMONICS VOLTAGE 15TH ENABLE	UNSIGNED BYTE
0298	1	DATA PROFILER HARMONICS CURRENT TOTAL ENABLE	UNSIGNED BYTE
0299	1	DATA PROFILER HARMONICS CURRENT 2ND ENABLE	UNSIGNED BYTE
0300	1	DATA PROFILER HARMONICS CURRENT 3RD ENABLE	UNSIGNED BYTE
0301	1	DATA PROFILER HARMONICS CURRENT 4TH ENABLE	UNSIGNED BYTE
0302	1	DATA PROFILER HARMONICS CURRENT 5TH ENABLE	UNSIGNED BYTE
0303	1	DATA PROFILER HARMONICS CURRENT 6TH ENABLE	UNSIGNED BYTE
0304	1	DATA PROFILER HARMONICS CURRENT 7TH ENABLE	UNSIGNED BYTE
0305	1	DATA PROFILER HARMONICS CURRENT 8TH ENABLE	UNSIGNED BYTE
0306	1	DATA PROFILER HARMONICS CURRENT 9TH ENABLE	UNSIGNED BYTE
0307	1	DATA PROFILER HARMONICS CURRENT 10TH ENABLE	UNSIGNED BYTE
0308	1	DATA PROFILER HARMONICS CURRENT 11TH ENABLE	UNSIGNED BYTE
0309	1	DATA PROFILER HARMONICS CURRENT 12TH ENABLE	UNSIGNED BYTE
0310	1	DATA PROFILER HARMONICS CURRENT 13TH ENABLE	UNSIGNED BYTE
0311	1	DATA PROFILER HARMONICS CURRENT 14TH ENABLE	UNSIGNED BYTE
0312	1	DATA PROFILER HARMONICS CURRENT 15TH ENABLE	UNSIGNED BYTE
0313	1	DATA PROFILER TAP POSITION INDICATION ENABLE	UNSIGNED BYTE
0314	1	2179 ACTIVE COM ID	UNSIGNED WORD
0316	1	2179 ACTIVE BLOCK ID	UNSIGNED WORD
0318	1	2179 MAP	256 BYTE STRING
0574	1	DNP ACTIVE COM ID	UNSIGNED WORD
0576	1	DNP ACTIVE BLOCK ID	UNSIGNED WORD
0578	1	DNP MAP	256 BYTE STRING
0834	1	DNP CLASS CODE	256 BYTE STRING
1090	1	DNP DEADBAND 1	256 BYTE STRING
1346	1	DNP DEADBAND 2	256 BYTE STRING
1602	1	HISTOGRAM ACTIVE ID	UNSIGNED WORD
1604	100	HISTOGRAM ACTIVE BIN01 LOW	SIGNED LONG
1608	100	HISTOGRAM ACTIVE BIN10 HIGH	SIGNED LONG
1612	1	USERINPUT CFG 01	UNSIGNED BYTE
1613	1	USERINPUT CFG 02	UNSIGNED BYTE
1614	1	USERINPUT CFG 03	UNSIGNED BYTE
1615	1	USERINPUT CFG 04	UNSIGNED BYTE
1616	1	USERINPUT CFG 05	UNSIGNED BYTE
1617	1	USERINPUT CFG 06	UNSIGNED BYTE
1618	1	USERINPUT CFG 07	UNSIGNED BYTE
1619	1	USERINPUT CFG 08	UNSIGNED BYTE
1620	1	USERINPUT CFG 09	UNSIGNED BYTE
1621	1	USERINPUT CFG 10	UNSIGNED BYTE
1622	1	USERINPUT CFG 11	UNSIGNED BYTE
1623	1	USERINPUT CFG 12	UNSIGNED BYTE
1624	1	USERINPUT CFG 13	UNSIGNED BYTE
1625	1	USERINPUT CFG 14	UNSIGNED BYTE
1626	1	USERINPUT CFG 15	UNSIGNED BYTE
1627	1	USERINPUT CFG 16	UNSIGNED BYTE
1628	1	USERINPUT CFG 17	UNSIGNED BYTE
1629	1	USERINPUT CFG 18	UNSIGNED BYTE
1630	1	USERINPUT CFG 10	UNSIGNED BYTE
1631	1	USERINPUT CFG 20	UNSIGNED BYTE
1632	1	USERINPUT CFG 21	UNSIGNED BYTE

ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 6			
Offset	Scale Factor	Description	Data Type
1633	1	USERINPUT CFG 22	UNSIGNED BYTE
1634	1	USERINPUT CFG 23	UNSIGNED BYTE
1635	1	USERINPUT CFG 24	UNSIGNED BYTE
1636	1	USERINPUT CFG 25	UNSIGNED BYTE
1637	1	USERINPUT CFG 26	UNSIGNED BYTE
1638	1	USERINPUT CFG 27	UNSIGNED BYTE
1639	1	USERINPUT CFG 28	UNSIGNED BYTE
1640	1	USERINPUT CFG 29	UNSIGNED BYTE
1641	1	USERINPUT CFG 30	UNSIGNED BYTE
1642	1	USERINPUT CFG 31	UNSIGNED BYTE
1643	1	USERINPUT CFG 32	UNSIGNED BYTE
1644	1	ALARM RECORDER QUERY EXECUTE ID	UNSIGNED WORD
1646	1	HANDSHAKE COM1	UNSIGNED WORD
1648	1	SYNC TIME COM2	UNSIGNED WORD
1650	1	SYNC TIME COM1	UNSIGNED WORD
1652	1	TX ENABLE ON COM1	UNSIGNED WORD
1654	1	TX ENABLE OFF COM1	UNSIGNED WORD
1656	1	DNP LOGICAL DEVICE 1 SLAVE ADDRESS COM2	UNSIGNED WORD
1658	1	DNP LOGICAL DEVICE 2 SLAVE ADDRESS COM2	UNSIGNED WORD
1660	1	DNP MASTER ADDRESS COM2	UNSIGNED WORD
1662	1	DNP APPLICATION CONFIRM MODE COM2	UNSIGNED WORD
1664	100	DNP APPLICATION CONFIRM TIMEOUT COM2	UNSIGNED WORD
1666	1	DNP RESPONSE FRAGMENT SIZE COM2	UNSIGNED WORD
1668	1	DNP COM2 OBJ1 VARIATION	UNSIGNED WORD
1670	1	DNP COM2 OBJ2 VARIATION	UNSIGNED WORD
1672	1	DNP COM2 OBJ20 VARIATION	UNSIGNED WORD
1674	1	DNP COM2 OBJ22 VARIATION	UNSIGNED WORD
1676	1	DNP COM2 OBJ30 VARIATION	UNSIGNED WORD
1678	1	DNP COM2 OBJ32 VARIATION	UNSIGNED WORD
1680	1	DNP COM2 OBJ40 41 VARIATION	UNSIGNED WORD
1682	1	DNP LOGICAL DEVICE 1 SLAVE ADDRESS COM1	UNSIGNED WORD
1684	1	DNP LOGICAL DEVICE 2 SLAVE ADDRESS COM1	UNSIGNED WORD
1686	1	DNP MASTER ADDRESS COM1	UNSIGNED WORD
1688	1	DNP APPLICATION CONFIRM MODE COM1	UNSIGNED WORD
1690	100	DNP APPLICATION CONFIRM TIMEOUT COM1	UNSIGNED WORD
1692	1	DNP RESP FRAG SIZE COM1	UNSIGNED WORD
1694	1	DNP COM1 OBJ1 VAR	UNSIGNED WORD
1696	1	DNP COM1 OBJ2 VAR	UNSIGNED WORD
1698	1	DNP COM1 OBJ20 VAR	UNSIGNED WORD
1700	1	DNP COM1 OBJ22 VAR	UNSIGNED WORD
1702	1	DNP COM1 OBJ30 VAR	UNSIGNED WORD
1704	1	DNP COM1 OBJ32 VAR	UNSIGNED WORD
1706	1	DNP COM1 OBJ40 41 VAR	UNSIGNED WORD
1708	1	CL FORM ACTIVE ID	UNSIGNED WORD
1710	1	CL FORM	168 BYTE STRING
1878	1	CL FORM LABEL	16 BYTE STRING
1894	1	DNP COM2 ARM SEL TM	UNSIGNED WORD
1896	1	DNP COM2 UNSOLICITED MIN EVENT C1	UNSIGNED WORD
1898	1	DNP COM2 UNSOLICITED MIN EVENT C2	UNSIGNED WORD
1900	1	DNP COM2 UNSOLICITED MIN EVENT C3	UNSIGNED WORD
1902	1	DNP COM2 UNSOLICITED DELAY C1	UNSIGNED WORD
1904	1	DNP COM2 UNSOLICITED DELAY C2	UNSIGNED WORD
1906	1	DNP COM2 UNSOLICITED DELAY C3	UNSIGNED WORD
1908	1	DNP COM2 UNSOLICITED MAX RETRIES	UNSIGNED WORD
1910	1	DNP COM2 UNSOLICITED OFFLINE TM	UNSIGNED WORD
1912	1	DNP COM2 UNSOLICITED FLUSH	UNSIGNED WORD
1914	1	DNP COM2 UNSOLICITED END BK USR	UNSIGNED WORD
1916	1	DNP COM2 UNSOLICITED END BK MSG	UNSIGNED WORD
1918	1	DNP COM2 UNSOLICITED TIMEOUT INC	UNSIGNED WORD
1920	1	DNP COM2 SELF ADDRESS	UNSIGNED WORD
1922	1	DNP COM2 EVENT MODE OBJ20	UNSIGNED WORD
1924	1	DNP COM2 EVENT MODE OBJ30	UNSIGNED WORD
1926	1	DNP COM2 EVENT BUF SZ Obj1	UNSIGNED WORD
1928	1	DNP COM2 EVENT BUF SZ Obj20	UNSIGNED WORD
1930	1	DNP COM2 EVENT BUF SZ Obj30	UNSIGNED WORD
1932	1	DNP COM1 ARM SEL TM	UNSIGNED WORD
1934	1	DNP COM1 UNSOLICITED MIN EVENT C1	UNSIGNED WORD
1936	1	DNP COM1 UNSOLICITED MIN EVENT C2	UNSIGNED WORD
1938	1	DNP COM1 UNSOLICITED MIN EVENT C3	UNSIGNED WORD
1940	1	DNP COM1 UNSOLICITED DELAY C1	UNSIGNED WORD
1942	1	DNP COM1 UNSOLICITED DELAY C2	UNSIGNED WORD

ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 6			
Offset	Scale Factor	Description	Data Type
1944	1	DNP COM1 UNSOLICITED DELAY C3	UNSIGNED WORD
1946	1	DNP COM1 UNSOLICITED MAX RETRIES	UNSIGNED WORD
1948	1	DNP COM1 UNSOLICITED OFFLINE TM	UNSIGNED WORD
1950	1	DNP COM1 UNSOLICITED FLUSH	UNSIGNED WORD
1952	1	DNP COM1 UNSOLICITED END BK USR	UNSIGNED WORD
1954	1	DNP COM1 UNSOLICITED END BK MSG	UNSIGNED WORD
1956	1	DNP COM1 UNSOLICITED TMOUT INC	UNSIGNED WORD
1958	1	DNP COM1 SELF ADDRESS	UNSIGNED WORD
1960	1	DNP COM1 EVENT MODE OBJ20	UNSIGNED WORD
1962	1	DNP COM1 EVENT MODE OBJ30	UNSIGNED WORD
1964	1	DNP COM1 EVENT BUF SZ Obj1	UNSIGNED WORD
1966	1	DNP COM1 EVENT BUF SZ Obj20	UNSIGNED WORD
1968	1	DNP COM1 EVENT BUF SZ Obj30	UNSIGNED WORD
1970	10	DNP COM2 UNSOLICITED FIXED DLY	UNSIGNED WORD
1972	10	DNP COM2 UNSOLICITED RANDOM DLY	UNSIGNED WORD
1974	10	DNP COM1 UNSOLICITED FIXED DLY	UNSIGNED WORD
1976	10	DNP COM1 UNSOLICITED RANDOM DLY	UNSIGNED WORD
1978	1	UNUSED	32 BYTE STRING
2010	1	VIN CONFIG	UNSIGNED WORD
2012	1	EVENT USER RESET REQUEST ENABLE	UNSIGNED BYTE
2013	1	EVENT SET TIME ENABLE	UNSIGNED BYTE
2014	1	EVENT FACT CALIBRATION REQUIRED ENABLE	UNSIGNED BYTE
2015	1	EVENT DID NOT ACQ DATA ENABLE	UNSIGNED BYTE
2016	1	EVENT TAP RAISE ENABLE	UNSIGNED BYTE
2017	1	EVENT TAP LOWER ENABLE	UNSIGNED BYTE
2018	1	EVENT TAP AT NEUTRAL ENABLE	UNSIGNED BYTE
2019	1	EVENT NEUTRAL SYNC ENABLE	UNSIGNED BYTE
2020	1	EVENT MAX TAP POS SYNC ENABLE	UNSIGNED BYTE
2021	1	EVENT MIN TAP POS SYNC ENABLE	UNSIGNED BYTE
2022	1	EVENT VOLT LIMIT ACTIVATED ENABLE	UNSIGNED BYTE
2023	1	EVENT VOLT LIMIT HIGH HIT ENABLE	UNSIGNED BYTE
2024	1	EVENT VOLT LIMIT LOW HIT ENABLE	UNSIGNED BYTE
2025	1	EVENT VOLT REDUC ACTIVATED ENABLE	UNSIGNED BYTE
2026	1	EVENT SOFT ADD AMP HIGH HIT ENABLE	UNSIGNED BYTE
2027	1	EVENT SOFT ADD AMP LOW HIT ENABLE	UNSIGNED BYTE
2028	1	EVENT PMT MODEA COMPLETE ENABLE	UNSIGNED BYTE
2029	1	EVENT PMT MODEB COMPLETE ENABLE	UNSIGNED BYTE
2030	1	EVENT INPUT VOLTAGE MISSING ENABLE	UNSIGNED BYTE
2031	1	EVENT INPUT VOLTAGE RESTORED ENABLE	UNSIGNED BYTE
2032	1	EVENT OUTPUT VOLTAGE MISSING ENABLE	UNSIGNED BYTE
2033	1	EVENT OUTPUT VOLTAGE RESTORED ENABLE	UNSIGNED BYTE
2034	1	USER TEXT	256 BYTE STRING
2290	1	RESERVED	FLOATING POINT
2294	1	RESERVED	FLOATING POINT
2298	1	RESERVED	FLOATING POINT
2302	1	RESERVED	FLOATING POINT
2306	1	RESERVED	FLOATING POINT
2310	1	RESERVED	FLOATING POINT
2314	1	RESERVED	FLOATING POINT
2318	1	RESERVED	FLOATING POINT
2322	1	RESERVED	FLOATING POINT
2326	1	RESERVED	FLOATING POINT
2330	1	RESERVED	FLOATING POINT
2334	1	RESERVED	FLOATING POINT
2338	1	RESERVED	FLOATING POINT
2342	1	RESERVED	FLOATING POINT
2346	1	RESERVED	FLOATING POINT
2350	1	RESERVED	FLOATING POINT
2354	1	RESERVED	FLOATING POINT
2358	1	RESERVED	FLOATING POINT
2362	1	RESERVED	FLOATING POINT
2366	1	RESERVED	FLOATING POINT
2370	1	RESERVED	FLOATING POINT
2374	1	RESERVED	FLOATING POINT
2378	1	RESERVED	FLOATING POINT
2382	1	RESERVED	FLOATING POINT
2386	1	RESERVED	FLOATING POINT
2390	1	RESERVED	FLOATING POINT
2394	1	RESERVED	FLOATING POINT
2398	1	RESERVED	FLOATING POINT
2402	1	RESERVED	FLOATING POINT

ORDINAL BLOCK SUBSYSTEM			
Ordinal Block 6			
Offset	Scale Factor	Description	Data Type
2406	1	RESERVED	FLOATING POINT
2410	1	RESERVED	FLOATING POINT
2414	1	RESERVED	FLOATING POINT

NOTE: DATA TYPE "FLOATING POINT" IS ACTUALY A SINGLE PRECISION FLOATING POINT NUMBER DATA TYPE

ORDINAL BLOCK SUBSYSTEM		
Ordinal Block B (All data is signed 16-bit integer format)		
Offset	Scale Factor	Description
0000	100	POWER FACTOR AT FORWARD DEMAND KVA LOAD MAXIMUM
0002	100	POWER FACTOR AT FORWARD DEMAND KVA LOAD MINIMUM
0004	100	POWER FACTOR AT REVERSE DEMAND KVA LOAD MAXIMUM
0006	100	POWER FACTOR AT REVERSE DEMAND KVA LOAD MINIMUM
0008	10	FORWARD DEMAND PRIMARY LOAD CURRENT MINIMUM
0010	10	FORWARD DEMAND PRIMARY LOAD CURRENT MAXIMUM
0012	10	FORWARD DEMAND KVA LOAD MINIMUM
0014	10	FORWARD DEMAND KVA LOAD MAXIMUM
0016	10	FORWARD DEMAND KVAR LOAD MINIMUM
0018	10	FORWARD DEMAND KVAR LOAD MAXIMUM
0020	10	FORWARD DEMAND KW LOAD MINIMUM
0022	10	FORWARD DEMAND KW LOAD MAXIMUM
0024	10	FORWARD DEMAND SECONDARY LOAD VOLTAGE MINIMUM
0026	10	FORWARD DEMAND SECONDARY LOAD VOLTAGE MAXIMUM
0028	10	FORWARD DEMAND SECONDARY COMPENSATED VOLTAGE MINIMUM
0030	10	FORWARD DEMAND SECONDARY COMPENSATED VOLTAGE MAXIMUM
0032	10	REVERSE DEMAND PRIMARY LOAD CURRENT MINIMUM
0034	10	REVERSE DEMAND PRIMARY LOAD CURRENT MAXIMUM
0036	10	REVERSE DEMAND KVA LOAD MINIMUM
0038	10	REVERSE DEMAND KVA LOAD MAXIMUM
0040	10	REVERSE DEMAND KVAR LOAD MINIMUM
0042	10	REVERSE DEMAND KVAR LOAD MAXIMUM
0044	10	REVERSE DEMAND KW LOAD MINIMUM
0046	10	REVERSE DEMAND KW LOAD MAXIMUM
0048	10	REVERSE DEMAND SECONDARY LOAD VOLTAGE MINIMUM
0050	10	REVERSE DEMAND SECONDARY LOAD VOLTAGE MAXIMUM
0052	10	REVERSE DEMAND SECONDARY COMPENSATED VOLTAGE MINIMUM
0054	10	REVERSE DEMAND SECONDARY COMPENSATED VOLTAGE MAXIMUM
0056	10	PERCENT REGULATIONMAXIMUM
0058	10	PERCENT REGULATIONMINIMUM
0060	1	TAP POSITION MAXIMUM
0062	1	TAP POSITION MINIMUM
0064	10	FORWARD DEMAND SECONDARY SOURCE VOLTAGE MINIMUM
0066	10	FORWARD DEMAND SECONDARY SOURCE VOLTAGE MAXIMUM
0068	10	REVERSE DEMAND SECONDARY SOURCE VOLTAGE MINIMUM
0070	10	REVERSE DEMAND SECONDARY SOURCE VOLTAGE MAXIMUM
0072	10	FORWARD DEMAND TOTAL CURRENT HARMONIC DISTORTION MINIMUM
0074	10	FORWARD DEMAND TOTAL CURRENT HARMONIC DISTORTION MAXIMUM
0076	10	REVERSE DEMAND TOTAL CURRENT HARMONIC DISTORTION MINIMUM
0078	10	REVERSE DEMAND TOTAL CURRENT HARMONIC DISTORTION MAXIMUM
0080	10	FORWARD DEMAND TOTAL VOLTAGE HARMONIC DISTORTION MINIMUM
0082	10	FORWARD DEMAND TOTAL VOLTAGE HARMONIC DISTORTION MAXIMUM
0084	10	REVERSE DEMAND TOTAL VOLTAGE HARMONIC DISTORTION MINIMUM
0086	10	REVERSE DEMAND TOTAL VOLTAGE HARMONIC DISTORTION MAXIMUM

## Appendix A: Analog Variable Values

Use the values below when reading or writing to a point that is normally selected from a list directly on the CL-6 control or through the interface software. For additional information on how to program the control, see the S225-11-1 instruction manual.

Example: SOFT-ADD-AMP State (Ordinal Block 6 Offset 94, Function Code 79) requires the entry of an “Off” or “On” value. Looking in the Off/On portion of the list Off = 0 and On = 1.

Off /On	0 = Off 1 = On	Add Amp Upper Limit	8 = 8 Raise 10 = Raise 12 = Raise 14 = Raise 16 = Raise	DNP Link Confirmation Mode	0 = Never 1 = Multi-Frame Fragments 2 = Always
False / True	0 = False 1 = True	Add Amp Lower Limit	-8 = Lower -10 = Lower -12 = Lower -14 = Lower -16 = Lower	Default DNP Object 01 Variation	1 = State 2 = Status+State
No / Yes	0 = No 1 = Yes	PMT Designation	0 = Off 1 = Master 2 = Slave	Default DNP Object 02 Variation	1 = State 2 = Status+State
Regulator Configuration	1 = Wye 2 = Delta	Baud Rate	0 = 300 1 = 600 2 = 1200 3 = 2400 4 = 4800 5 = 9600 6 = 19200 7 = 38400	Default DNP Object 20 Variation	1 = 32Bt Flag and Value 2 = 16Bt Flag and Value 5 = 32Bt Value 6 = 16Bt Value
Regulator Configuration	0 = Wye (or Star) 1 = Delta Lagging 2 = Delta Leading	Protocols	0 = DNP 3.0 1 = 2179	Default DNP Object 22 Variation	1 = 32Bt Flag and Value 2 = 16Bt Flag and Value 5 = 32Bt Flag and Value with Time Stamp 6 = 16Bt Flag and Value with Time Stamp
Control Operating Mode	0 = Sequential (Std) 1 = Time Integrating 2 = Voltage Averaging	Handshaking Mode	0 = RTS without CTS 1 = RTS with CTS 2 = RTR without CTS 3 = RTR with CTS	Default DNP Object 30 Variation	1 = 32Bt Flag and Value 2 = 16Bt Flag and Value 3 = 32Bt Value 4 = 16Bt Value 5 = Float Flag and Value
Regulator Type	0 = A 1 = B 2 = C 3 = D	PIO Equation Form Type	0 = None 1 = Standard 4 = If-Then 5 = Timer 6 = If-Else 7 = If-Else-If	Default DNP Object 32 Variation	1 = 32Bt Flag and Value 2 = 16Bt Flag and Value 3 = 32Bt Flag and Value with Time Stamp 4 = 16Bt Flag and Value with Time Stamp 5 = Float Flag and Value
Tap Changer Type	0 = Cooper QD8 1 = Cooper QD5 2 = Cooper QD3 3 = Cooper Spring Drive 4 = Cooper Direct Drive 5 = Siemens 6 = General Electric 7 = Toshiba 8 = ----	Communications Protocol Map ID	0 = User 32 = CL-5D 33 = CL-5E 34 = CL-6A	Default DNP Object 40 Variation	1 = 32Bt Flag and Value 2 = 16Bt Flag and Value 3 = Float Flag and Value
Reverse Sensing Mode	0 = Locked Forward 1 = Locked Reverse 2 = Reverse Idle 3 = Bidirectional 4 = Neutral Idle 5 = Cogeneration 6 = Reactive Bidirectional	Default Map Port	0 = User1-COM1 User2-COM2 1 = User1 on COM1/2 2 = User2 on COM1/2	DNP Event Mode	0 = SOE 1 = Current
Security Override	0 = Standard 1 = Override Level 1 2 = Override Level 2 3 = Override Level 3	Control Function Switch	0 = Manual 1 = Auto		
Voltage Limiter Mode	0 = Off 1 = High Volt Limit 2 = Low Volt Limit				



