

Host command = <stx> L <addr> 00 <cksm> <etx>

Instrument reply = <stx> L <addr> <data> <cksm> <ack>

[BINARY]

1st CHAR. bit 7 = Auto/Manual Mode, 0= Automatic, 1= Manual
bit 6 = Communication mode, 0= Local, 1= Remote
bit 5 = not used
bit 4 = 1 = Error present, Read Full Status using
CMD 05 to determine which error caused
this.

2nd CHAR. bit 3 = 0 = Alarm #1 De-Energized (Off)
1 = Alarm #1 Energized (On)
bit 2 = 0 = Alarm #2 De-Energized (Off)
1 = Alarm #2 Energized (On)
bit 1 = Local Set Point selected.
bit 0 = " " "
bit 1 bit 0 Set Point
0 0 = 1SP1
0 1 = 2SP1
1 0 = 3SP1
1 1 = 4SP1

3rd CHAR. bit 7 = 1 = No Activity Timer (nat) ERROR
bit 6 = not used
bit 5 = Decimal Point bit 5 bit 4 Decimal Point
bit 4 = " " 0 0 = 0
0 1 = 0.0
1 0 = 0.00
1 1 = 0.000

4th CHAR. bit 3 = not used
bit 2 = Engineering Units bit 2 bit 1 Eng. Units
bit 1 = " " 0 0 = none
0 1 = F
1 0 = C
bit 0 = Process Variable Sign 0 = Positive
1 = Negative

5th CHAR. MSD [VALUE] Process Variable

6th CHAR.

7th CHAR.

8th CHAR. LSD

Data Example: ASCII 34 34 30 32 30 31 30 30

	[BIN]	[BIN]	[VALUE]
ASCII	34 34	30 32	30 31 30 30
ACSII Conversion	4 4	0 2	0 1 0 0
BINARY Conversion	0100 0100	0000 0010	100
Bit	7654 3210	7654 3210	100 F

From BINARY data

1. Instrument is set in Remote mode.
2. Alarm #2 is Energized (On)
3. Value resolution is at 1 degree.
4. Value is in degrees F and positive.

Host command = <stx> L <addr> 05 <cksm> <etx>

Instrument reply = <stx> L <addr> <data> <cksm> <ack>

[BINARY]

1st CHAR. bit 7 1=Fail Test Error
 bit 6 not used
 bit 5 1=Check Calibration Error
 bit 4 1=OFL, Overflow Error

2nd CHAR. bit 3 1=UFL, Underflow Error
 bit 2 1=Bad Input Error
 bit 1 1=Open Input Error
 bit 0 1=Area Error

3rd CHAR. bit 7 1=Loop Break Error
 bit 6 1=Sensor Rate of Change Error
 bit 5 not used
 bit 4 not used

4th CHAR. bit 3 not used
 bit 2 not used
 bit 1 not used
 bit 0 not used

5th CHAR. not used
6th CHAR. not used
7th CHAR. not used
8th CHAR. not used
9th CHAR. not used
10th CHAR. not used

Note: If any Error is present here, the "Error present" bit will
 be set in the Process Variable read command 00.

Host command = <stx> L <addr> 0100 <cksm> <etx>
 Instrument reply = <stx> L <addr> <data> <cksm> <ack>

The data field contains 6 ASCII characters, and are defined as follows.

```

                                [BINARY]
                                -----
1st CHAR.  bit 7 --
            bit 6 --

            bit 5 0=0 0=0.0 1=0.00 1=0.000
            bit 4 0= 1=      0=      1=
                                -----

2nd CHAR.  bit 3 --

            bit 2 0=F 1=C 0=NONE
            bit 1 1=  0=  0=

            bit 0 SIGN, 1=NEGATIVE
                      0=POSITIVE
                                -----

                                [VALUE]
                                -----
3rd CHAR.  MSD
4th CHAR.
5th CHAR.
6th CHAR.  LSD
                                -----
  
```

Data Example:

ASCII	32 32 30 31 30 30
	[BIN] [VALUE]
ASCII	32 32 30 31 35 30
ACSII Conversion	2 2 0 1 5 0
BINARY Conversion	0010 0010 150
Bit	7654 3210 15.0 F

from bit data, note that
 decimal point format is 0.0
 and Value is in degrees F.

Host command = <stx> L <addr> 0300 <cksm> <etx>

Instrument reply = <stx> L <addr> <data> <cksm> <ack>

The data field contains 2 ASCII characters, and
are defined as follows.

1st CHAR. bit 7 --
 bit 6 --
 bit 5 --
 bit 4 --

2nd CHAR. bit 3 --
 bit 2 --
 bit 1 --
 bit 0 --

Data Example:

ASCII	32	32
ACSII Conversion	2	2
BINARY Conversion	0010	0010
Bit	7654	3210

Data can be a VALUE or BINARY states, command dependent.

Description	Command	Data
ACTIVE SET POINT #####	0100	[BIN] [VALUE]
1SP1 #####	0101	[BIN] [VALUE]
2SP1 #####	0102	[BIN] [VALUE]
3SP1 #####	0103	[BIN] [VALUE]
4SP1 #####	0104	[BIN] [VALUE]
SP2 #####	0105	[BIN] [VALUE]
A1LO #####	0106	[BIN] [VALUE]
A1HI #####	0107	[BIN] [VALUE]
A2LO #####	0108	[BIN] [VALUE]
A2HI #####	0109	[BIN] [VALUE]
Out1 tP/OnOf/PuL/PrOP	0300	[00]=Time Proportioning [01]=Time Proportioning [06]=Current or Voltage Output [08]=Pulse [10]=On-Off
tP ##	0301	[##] 1 to 80
OnOf #####	010A	[BIN] [VALUE]
PuL ##	0302	[##] 1 to 7
Out2 tP/OnOf/PuL/PrOP	0303	[00]=Time Proportioning [01]=Time Proportioning [06]=Current or Voltage Output [08]=Pulse [10]=On-Off
tP ##	0304	[##] 1 to 80
OnOf #####	010B	[BIN] [VALUE]
PuL ##	0305	[##] 1 to 7
1tun SLO/nor/FASt/SELf/Pid with LErn YES/no	0306	[0#]=Self [#0]=Learn = No [1#]=PID [#4]=Learn = Yes [2#]=Slow [3#]=Normal [4#]=Fast
dFAC ##	030A	[##] 1 to 7
Pb1 #####	010C	[BIN] [VALUE]
rES/OFS ###	0111	[BIN] [VALUE] bit 0: 1=rES,0=OFS
rtE #####	0115	[BIN] [VALUE]

Description		Command	Data
2tun	SLO/nor/FASt/SELF/Pid with LErn YES/no	0307	[0#]=Self [#0]=Learn=No [1#]=PID [#4]=Learn=Yes [2#]=Slow [3#]=Normal [4#]=Fast
	dFAC ##	030B	[##] 1 to 7
	Pb1 ####	010D	[BIN] [VALUE]
	rES/OFS ###	0112	[BIN] [VALUE] bit 0: 1=rES,0=OFS
	rtE ####	0116	[BIN] [VALUE]
3tun	SLO/nor/FASt/SELF/Pid with LErn YES/no	0308	[0#]=Self [#0]=Learn=No [1#]=PID [#4]=Learn=Yes [2#]=Slow [3#]=Normal [4#]=Fast
	dFAC ##	030C	[##] 1 to 7
	Pb1 ####	010E	[BIN] [VALUE]
	rES/OFS ###	0113	[BIN] [VALUE] bit 0: 1=rES,0=OFS
	rtE ####	0117	[BIN] [VALUE]
4tun	SLO/nor/FASt/SELF/Pid with LErn YES/no	0309	[0#]=Self [#0]=Learn=No [1#]=PID [#4]=Learn=Yes [2#]=Slow [3#]=Normal [4#]=Fast
	dFAC ##	030D	[##] 1 to 7
	Pb1 ####	010F	[BIN] [VALUE]
	rES/OFS ###	0114	[BIN] [VALUE] bit 0: 1=rES,0=OFS
	rtE ####	0118	[BIN] [VALUE]
Pb2	####	0110	[BIN] [VALUE]
Pid2	On/OFF	030E	[non-ZERO]=ON [ZERO]=OFF
ArUP	On/OFF	030F	[non-ZERO]=ON [ZERO]=OFF
ArTE	####	0119	[BIN] [VALUE]
Fint	###	011A	[BIN] [VALUE]
Fbnd	####	011B	[BIN] [VALUE]
FrTE	####	011C	[BIN] [VALUE]
PEA	####	011D	[BIN] [VALUE]
VAL	####	011E	[BIN] [VALUE]
PctO	On/OFF	0310	[non-ZERO]=ON [ZERO]=OFF
PctO	Value	0156	[BIN] [VALUE] bit 0: 1=SP2,0=SP1
Alternates between SP1 & SP2			

Description		Command	Data	
Prog	On/OFF	0311	[non-ZERO]=ON	[ZERO]=OFF
PSEt	On/OFF	0312	[non-ZERO]=ON	[ZERO]=OFF
StAt	On/OFF	0313	[non-ZERO]=ON	[ZERO]=OFF
tbAS 60_S/1_S see (##ti) segment time BIN below				
HOLD/RUN KEY		0314	[non-ZERO]=HOLD	[ZERO]=RUN
1SP	####	0121	[BIN]	[VALUE]
2SP	####	0123	[BIN]	[VALUE]
3SP	####	0125	[BIN]	[VALUE]
4SP	####	0127	[BIN]	[VALUE]
5SP	####	0129	[BIN]	[VALUE]
6SP	####	012B	[BIN]	[VALUE]
7SP	####	012D	[BIN]	[VALUE]
8SP	####	012F	[BIN]	[VALUE]
9SP	####	0131	[BIN]	[VALUE]
10SP	####	0133	[BIN]	[VALUE]
11SP	####	0135	[BIN]	[VALUE]
12SP	####	0137	[BIN]	[VALUE]
13SP	####	0139	[BIN]	[VALUE]
14SP	####	013B	[BIN]	[VALUE]
15SP	####	013D	[BIN]	[VALUE]
16SP	####	013F	[BIN]	[VALUE]

[BIN] definition for Time Segments, ##ti, ONLY

bit 7 ##A1 1=ON 0=OFF Alarm #1 Event
bit 6 ##A2 1=ON 0=OFF Alarm #2 Event
bit 5
bit 4

bit 3
bit 2
bit 1
bit 0 tbAS 1= 60_S 0= 1_S Time Base

1ti	####	0120	[BIN]	[VALUE]
2ti	####	0122	[BIN]	[VALUE]
3ti	####	0124	[BIN]	[VALUE]
4ti	####	0126	[BIN]	[VALUE]
5ti	####	0128	[BIN]	[VALUE]
6ti	####	012A	[BIN]	[VALUE]
7ti	####	012C	[BIN]	[VALUE]
8ti	####	012E	[BIN]	[VALUE]
9ti	####	0130	[BIN]	[VALUE]
10ti	####	0132	[BIN]	[VALUE]
11ti	####	0134	[BIN]	[VALUE]
12ti	####	0136	[BIN]	[VALUE]
13ti	####	0138	[BIN]	[VALUE]
14ti	####	013A	[BIN]	[VALUE]
15ti	####	013C	[BIN]	[VALUE]
16ti	####	013E	[BIN]	[VALUE]

Description	Command	Data
PEnd HOLD/OoFF/LOOP/SP1	0315	[00]= HOLD [01]= OoFF [02]= LOOP [03]= SP1
Current Segment running ## and Remaining Time ####	011F	[SEG] [TIME]

Description	Command	Data
InPC #####	0140	[BIN] [VALUE]
FiLt ##	0316	[VALUE]
LPbr #####	0141	[BIN] [VALUE]
SECr #####	0142	[BIN] [VALUE] 0001= MAX 0002= 0003= 0004= MIN
INP ##	0317	[01]= J-IC [02]= CA [03]= E- [04]= t- [05]= L- [06]= n- [07]= r-13 [08]= S-10 [09]= b- [0A]= C- [0B]= P392 [0C]= n120 [0D]= P385 [0E]= 1P38 [0F]= Curr [10]= Volt [11]= diFF
OSUP On/OFF	0318	[non-ZERO]=ON [ZERO]=OFF
Unit F/C/nonE	0319	[00]= nonE [01]= F [02]= C
dPt 0 /0.0 /0.00 /0.000	031A	[00]= 0 [01]= 0.0 [02]= 0.00 [03]= 0.000
InPt #####	0143	[BIN] [VALUE]
*InPB ##	0329	[00] FAIL [01] AUE [02] PrE
*PrE1 #####	0157	[BIN] [VALUE]
*PrE2 #####	0158	[BIN] [VALUE]
*APCt ##	032A	[ZERO] = rEAL [NONZERO] = Adj
SEnC #####	0144	[BIN] [VALUE]
SCAL #####	0145	[BIN] [VALUE]
SCAH #####	0146	[BIN] [VALUE]
SPL #####	0147	[BIN] [VALUE]
SPH #####	0148	[BIN] [VALUE]
*SP10 ##	0328	[ZERO] = OutA [NONZERO] = Outb

* Items apply to 16A and 32A Series only

Description	Command	Data
Set Point #1 Setup		031B [BIN]
		bit 7
		bit 6
S1iH On/OFF		S1iH bit 5 1= On 0= OFF
S1Pi On/OFF		S1Pi bit 4 1= On 0= OFF
S1rE OnOF/Hold	S1rE	bit 3 1= OnOF 0= Hold
S1LP O on/OoFF	S1LP	bit 2 1= O on 0= OoFF
S1St dir/rE	S1St	bit 1 1= dir 0= rE
		bit 0
S1OL ####	0149	[BIN] [VALUE]
S1OH ####	014A	[BIN] [VALUE]
Set Point #2 Setup		031C [BIN]
		bit 7
		bit 6
S2iH On/OFF		S2iH bit 5 1= On 0= OFF
S2Pi On/OFF		S2Pi bit 4 1= On 0= OFF
S2rE OnOF/Hold	S2rE	bit 3 1= OnOF 0= Hold
S2LP O on/OoFF	S2LP	bit 2 1= O on 0= OoFF
S2St dir/rE	S2St	bit 1 1= dir 0= rE
S2t AbS/dE	S2t	bit 0 1= AbS 0= dE
S2OL ####	014B	[BIN] [VALUE]
S2OH ####	014C	[BIN] [VALUE]
AL1 OFF/Lo/Hi/HiLo/Evnt		031D [00]=OFF [01]=Lo [02]=Hi [03]=HiLo [04]=Evnt
Alarm #1 Setup		031E [BIN]
		bit 7
AlLb On/OFF		AlLb bit 6 1= On 0= OFF
AliH On/OFF		AliH bit 5 1= On 0= OFF
AlPi On/OFF		AlPi bit 4 1= On 0= OFF
AlrE OnOF/Hold	AlrE	bit 3 1= OnOF 0= Hold
AlLP O on/OoFF	AlLP	bit 2 1= O on 0= OoFF
AlSt OPEn/CLOS	AlSt	bit 1 1= OPEn 0= CLOS
Alt AbS/dE	Alt	bit 0 1= AbS 0= dE

Description	Command	Data
AL2	OFF/Lo/Hi/HiLo/Evnt	031F [00]=OFF [01]=Lo [02]=Hi [03]=HiLo [04]=Evnt
Alarm #2 Setup		0320 [BIN]
		bit 7
A2Lb	On/OFF	A2Lb bit 6 1= On 0= OFF
A2iH	On/OFF	A2iH bit 5 1= On 0= OFF
A2Pi	On/OFF	A2Pi bit 4 1= On 0= OFF
A2rE	OnOF/Hold	A2rE bit 3 1= OnOF 0= Hold
A2LP	O on/OoFF	A2LP bit 2 1= O on 0= OoFF
A2St	OPEn/CLOS	A2St bit 1 1= OPEn 0= CLOS
A2t	AbS/dE	A2t bit 0 1= AbS 0= dE

AUTO/MANUAL KEY		SEE STATUS AND PROCESS VARIABLE COMMAND (00)
MANUAL (SP1)	####	0153 [BIN] [VALUE]
MANUAL (SP2)	####	0154 [BIN] [VALUE]

OPTION -934, -936 PROCESS OUTPUT		

POL	####	014D [BIN] [VALUE]
POH	####	014E [BIN] [VALUE]
POSr	SPT/InP	0321 [non-ZERO]=SPT [ZERO]=InP
OPTION -948 4 STAGE SET POINT		

SP	1SP1/2SP1/3SP1/4SP1	0322 [00]= 1SP1 for Internal (Int) [01]= 2SP1 Mode only. [02]= 3SP1 [03]= 4SP1
SPSA	rE/Int	0323 [non-ZERO]=rE [ZERO]=Int
OPTION -992,-993 COMMUNICATIONS		

LOrE	rE/LOC	0324 [non-ZERO]=rE [ZERO]=LOC
nAt	##	0325 [VALUE]
OPTION -924(V),-926(I),-928(R) REMOTE SET POINT		

rScL	####	014F [BIN] [VALUE]
rScH	####	0150 [BIN] [VALUE]
rSPt	On/OFF	0326 [non-ZERO]=On [ZERO]=OFF

Host command = <stx> L <addr> <command> < data > <cksm> <etx>
Value Sign

```
Instrument reply    = <stx> L <addr> <data> <cksm> <ack>
```

00 =Accepted

N03 =Error, out of range, bad command

1st CHAR.	MSD	[VALUE]
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2nd CHAR.

3rd CHAR.

4th CHAR. LSD

[SIGN]

5th CHAR. Sign [non-ZERO]=Negative

6th CHAR. Sign [ZERO]=Positive

Note:

1. Local/Remote (LOrE) must be set for Remote (rE) to Write.

Host command = <stx> L <addr> <command> <cksm> <etx>

= <stx> L <addr> 0400 <cksm> <etx>

Instrument reply = <stx> L <addr> <data> <cksm> <ack>
00 =Accepted
N03 =Error, bad command

These commands are fixed in their function, no data required.

Note:

1. Local/Remote (LOrE) must be set for Remote (rE) to Write.

Description	Command	Data
1SP1 ####	0200	[VALUE] [SIGN]
2SP1 ####	0201	[VALUE] [SIGN]
3SP1 ####	0202	[VALUE] [SIGN]
4SP1 ####	0203	[VALUE] [SIGN]
SP2 ####	0204	[VALUE] [SIGN]
A1LO ####	0205	[VALUE] [SIGN]
A1HI ####	0206	[VALUE] [SIGN]
A2LO ####	0207	[VALUE] [SIGN]
A2HI ####	0208	[VALUE] [SIGN]

Output #1 (Out1)

tP	##	0229	[00 VALUE] [00]	Time Proportioning
OnOf	####	022B	[VALUE] [00]	On-Off
PuL	##	022D	[00 VALUE] [00]	Pulse

Output #2 (Out2)

tP	##	022A	[00 VALUE] [00]	Time Proportioning
OnOf	####	022C	[VALUE] [00]	On-Off
PuL	##	022E	[00 VALUE] [00]	Pulse

1tun SLO/nor/FASt/SELF/Pid

		025D	[VALUE] [00]
			[0000]=Self
			[0001]=PID
			[0002]=Slow
			[0003]=Normal
			[0004]=Fast
Pb1	####	022F	[VALUE] [00]
rES/OFS	###	0233	[VALUE] [ZERO]=Reset
			[VALUE] [non-ZERO]=Offset
rtE	####	0237	[VALUE] [00]
dFAC	##	023B	[00 VALUE] [00]
LERN YES/no	042A		=YES
	042B		=NO

2tun SLO/nor/FASt/SELF/Pid

	025E	[VALUE] [00]
		[0000]=Self
		[0001]=PID
		[0002]=Slow
		[0003]=Normal
		[0004]=Fast
Pb1 ####	0230	[VALUE] [00]
rES/OFS ###	0234	[VALUE] [ZERO]=Reset
		[VALUE] [non-ZERO]=Offset
rtE ####	0238	[VALUE] [00]
dFAC ##	023C	[00 VALUE] [00]
LERN YES/no	042C	=YES
	042D	=NO

3tun SLO/nor/FASt/SELF/Pid

	025F	[VALUE] [00]
		[0000]=Self
		[0001]=PID
		[0002]=Slow
		[0003]=Normal
		[0004]=Fast
Pb1 ####	0231	[VALUE] [00]
rES/OFS ###	0235	[VALUE] [ZERO]=Reset
		[VALUE] [non-ZERO]=Offset
rtE ####	0239	[VALUE] [00]
dFAC ##	023D	[00 VALUE] [00]
LERN YES/no	042E	=YES
	042F	=NO

4tun SLO/nor/FASt/SELF/Pid

	0260	[VALUE] [00]
		[0000]=Self
		[0001]=PID
		[0002]=Slow
		[0003]=Normal
		[0004]=Fast
Pb1 ####	0232	[VALUE] [00]
rES/OFS ###	0236	[VALUE] [ZERO]=Reset
		[VALUE] [non-ZERO]=Offset
rtE ####	023A	[VALUE] [00]
dFAC ##	023E	[00 VALUE] [00]
LERN YES/no	0430	=YES
	0431	=NO

Description	Command	Data
Pb2 ####	023F	[VALUE] [00]
Pid2 On/OFF	0414 =ON 0415 =OFF	
ArUP On/OFF	0416 =ON 0417 =OFF	
Arte ####	0240	[VALUE] [00]
Fint ###	0241	[VALUE] [00]
Fbnd ####	0242	[VALUE] [00]
Frte ####	0243	[VALUE] [00]
PEA ####	040A	Reset Peak Value
VAL ####	040B	Reset Valley Value
PctO On/OFF	040C =ON 040D =OFF	

Description		Command	Data	
Prog On/OFF		0418	=ON	
		0419	=OFF	
PSet On/OFF		041A	=ON	
		041B	=OFF	
StAt On/OFF		041C	=ON	
		041D	=OFF	
tbAS 60_S/1_S		041E	= 1_S	
		041F	=60_S	
HOLD/RUN KEY		0420	=RUN	
		0421	=HOLD	
1SP ####		0219	[VALUE]	[SIGN]
2SP ####		021A	[VALUE]	[SIGN]
3SP ####		021B	[VALUE]	[SIGN]
4SP ####		021C	[VALUE]	[SIGN]
5SP ####		021D	[VALUE]	[SIGN]
6SP ####		021E	[VALUE]	[SIGN]
7SP ####		021F	[VALUE]	[SIGN]
8SP ####		0220	[VALUE]	[SIGN]
9SP ####		0221	[VALUE]	[SIGN]
10SP ####		0222	[VALUE]	[SIGN]
11SP ####		0223	[VALUE]	[SIGN]
12SP ####		0224	[VALUE]	[SIGN]
13SP ####		0225	[VALUE]	[SIGN]
14SP ####		0226	[VALUE]	[SIGN]
15SP ####		0227	[VALUE]	[SIGN]
16SP ####		0228	[VALUE]	[SIGN]
1ti ####		0209	[VALUE]	[00]
2ti ####		020A	[VALUE]	[00]
3t1 ####		020B	[VALUE]	[00]
4t1 ####		020C	[VALUE]	[00]
5t1 ####		020D	[VALUE]	[00]
6t1 ####		020E	[VALUE]	[00]
7t1 ####		020F	[VALUE]	[00]
8t1 ####		0210	[VALUE]	[00]
9t1 ####		0211	[VALUE]	[00]
10t1 ####		0212	[VALUE]	[00]
11t1 ####		0213	[VALUE]	[00]
12t1 ####		0214	[VALUE]	[00]
13t1 ####		0215	[VALUE]	[00]
14t1 ####		0216	[VALUE]	[00]
15t1 ####		0217	[VALUE]	[00]
16t1 ####		0218	[VALUE]	[00]
PEnd	HOLD/OoFF/LOOP/SP1			
		024F	[VALUE]	[00]
			[0000]=	HOLD
			[0001]=	OoFF
			[0002]=	LOOP
			[0003]=	SP1

Alarm #1 and #2 Events Segments #1 to #8

024C [VALUE/BINARY] [00]

seg 1	seg 2	seg 3	seg 4	seg 5	seg 6	seg 7	seg 8
a1 a2	a1 a2	a1 a2	a1 a2	a1 a2	a1 a2	a1 a2	a1 a2
# #	# #	# #	# #	# #	# #	# #	# #

1=ON, 0=OFF

Alarm #1 and #2 Events Segments #9 to #16

024D [VALUE/BINARY] [00]

seg 9	seg10	seg11	seg12	seg13	seg14	seg15	seg16
a1 a2	a1 a2	a1 a2	a1 a2	a1 a2	a1 a2	a1 a2	a1 a2
# #	# #	# #	# #	# #	# #	# #	# #

1=ON, 0=OFF

Description		Command	Data	
InPC	####	024E	[VALUE]	[SIGN]
FiLt	##	0246	[VALUE]	[00]
LPbr	####	0244	[VALUE]	[00]
SECr	####	0265	[VALUE]	[00]
			[0001]= MAX	
			[0002]=	
			[0003]=	
			[0004]= MIN	
INP	##	025A	[VALUE]	[00]
			[0001]= J-IC	
			[0002]= CA	
			[0003]= E-	
			[0004]= t-	
			[0005]= L-	
			[0006]= n-	
			[0007]= r-13	
			[0008]= S-10	
			[0009]= b-	
			[000A]= C-	
			[000B]= P392	
			[000C]= n120	
			[000D]= P385	
			[000E]= 1P38	
			[000F]= Curr	
			[0010]= Volt	
			[0011]= diFF	
OSUP	On/OFF	0422	=ON	
		0423	=OFF	
Unit	F/C/nonE	025B	[VALUE]	[00]
			[0000]= nonE	
			[0001]= F	
			[0002]= C	
dPt	0 /0.0 /0.00 /0.000	025C	[VALUE]	[00]
			[0000]= 0	
			[0001]= 0.0	
			[0002]= 0.00	
			[0003]= 0.000	
InPt	####	0247	[VALUE]	[00]
*InPB	####	0268	[VALUE]	[00]
			[0000] = FAIL	
			[0001] = AUE	
			[0002] = PrE	
*PrE1	####	0269	[VALUE]	[00]
*PrE2	####	026A	[VALUE]	[00]
*APCt	rEAL/Adj	0434	=rEAL	
		0435	=Adj	

* Items apply to 16A and 32A Series only

Description	Command	Data
SEnC #####	0245	[VALUE] [00]
*SP10 OutA/OutB	0432	=OutA
	0433	=Outb
SCAL #####	0258	[VALUE] [SIGN]
SCAH #####	0259	[VALUE] [SIGN]
SPL #####	0256	[VALUE] [SIGN]
SPH #####	0257	[VALUE] [SIGN]

Description	Command	Data
Set Point #1 Setup	0252	[00 BINARY] [00]
BINARY bit 7 bit 6 S1iH On/OFF S1iH bit 5 1= On 0= OFF S1Pi On/OFF S1Pi bit 4 1= On 0= OFF S1rE OnOF/Hold S1rE bit 3 1= OnOF 0= Hold S1LP O on/OoFF S1LP bit 2 1= O on 0= OoFF S1St dir/rE S1St bit 1 1= dir 0= rE bit 0		
S1OL ####	0248	[VALUE] [00]
S1OH ####	0249	[VALUE] [00]
Set Point #2 Setup	0253	[00 BINARY] [00]
BINARY bit 7 bit 6 S2iH On/OFF S2iH bit 5 1= On 0= OFF S2Pi On/OFF S2Pi bit 4 1= On 0= OFF S2rE OnOF/Hold S2rE bit 3 1= OnOF 0= Hold S2LP O on/OoFF S2LP bit 2 1= O on 0= OoFF S2St dir/rE S2St bit 1 1= dir 0= rE S2t AbS/dE S2t bit 0 1= AbS 0= dE		
S2OL ####	024A	[VALUE] [00]
S2OH ####	024B	[VALUE] [00]
AL1 OFF/Lo/Hi/HiLo/Evnt	0250	[VALUE] [00] [0000]=OFF [0001]=Lo [0002]=Hi [0003]=HiLo [0004]=Evnt
Alarm #1 Setup	0254	[00 BINARY] [00]
bit 7 AlLb On/OFF AlLb bit 6 1= On 0= OFF AliH On/OFF AliH bit 5 1= On 0= OFF AlPi On/OFF AlPi bit 4 1= On 0= OFF AlrE OnOF/Hold AlrE bit 3 1= OnOF 0= Hold AlLP O on/OoFF AlLP bit 2 1= O on 0= OoFF AlSt OPEn/CLOS AlSt bit 1 1= OPEn 0= CLOS Alt AbS/dE Alt bit 0 1= AbS 0= dE		

AL2 OFF/Lo/Hi/HiLo/Evnt

0251	[VALUE] [00]
	[00]=OFF
	[01]=Lo
	[02]=Hi
	[03]=HiLo
	[04]=Evnt

Alarm #2 Setup 0255 [00 BINARY] [00]

		bit 7	
A2Lb	On/OFF	A2Lb	bit 6 1= On 0= OFF
A2iH	On/OFF	A2iH	bit 5 1= On 0= OFF
A2Pi	On/OFF	A2Pi	bit 4 1= On 0= OFF
A2rE	OnOF/Hold	A2rE	bit 3 1= OnOF 0= Hold
A2LP	O on/OoFF	A2LP	bit 2 1= O on 0= OoFF
A2St	OPEn/CLOS	A2St	bit 1 1= OPEn 0= CLOS
A2t	AbS/dE	A2t	bit 0 1= AbS 0= dE

AUTO/MANUAL KEY 0408 = AUTOMATIC
0409 = MANUAL

MANUAL (SP1)	####	0266	[VALUE] [00]
MANUAL (SP2)	####	0267	[VALUE] [00]

ALARM #1 MANUAL RESET	0403
ALARM #2 MANUAL RESET	0404
ALARM #1,& #2 MANUAL RESET	0405

SP1 MANUAL RESET	0406
SP2 MANUAL RESET	0407

Description	Command	Data
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OPTION -934, -936 PROCESS OUTPUT

POL	####	0261	[VALUE] [SIGN]
POH	####	0262	[VALUE] [SIGN]

POSr	SPt/InP	0424	=SPt
		0425	=InP

OPTION -948 4 STAGE SET POINT

SP 1SP1/2SP1/3SP1/4SP1

0410	=1SP1 for Internal (Int)
0411	=2SP1 Mode only.
0412	=3SP1
0413	=4SP1

SPSA	rE/Int	040E	=rE
		040F	=Int

OPTION -992,-993 COMMUNICATIONS

LOrE	rE/LOC	0400	=rE
		0401	=LOC

OPTION -924(V),-926(I),-928(R) REMOTE SET POINT

rScL	####	0263	[VALUE] [SIGN]
rScH	####	0264	[VALUE] [SIGN]

rSPt	On/OFF	0426	=On
		0427	=OFF