6 Chapter 6: Setup Page

Navigating the Setup Page

To go to the Setup Page from the Home Page, press both the Up ▲ and Down ▼ keys for six seconds. A1 will appear in the upper display and SEt will appear in the lower display.

- Press the Up ▲ or Down ▼ key to view available menus. On the following pages top level menus are identified with a yellow background color.
- Press the Advance Key ◉ to enter the menu of choice.
- If a submenu exists (more than one instance), press the Up ▲ or Down ▼ key to select and then press the Advance Key ◉ to enter.
- Press the Up ▲ or Down ▼ key to move through available menu prompts.
- Press the Infinity Key ∞ to move backwards through the levels: parameter to submenu; submenu to menu; menu to Home Page.
- Press and hold the Infinity Key ∞ for two seconds to return to the Home Page.

Note:

Some of these menus and parameters may not appear, depending on the controller's options. See model number information in the Appendix for more information. If there is only one instance of a menu, no submenus will appear.

A1
SEt Analog Input Menu
- SEn Sensor Type
- tyPE TC Linearization
- rtdL RTD Leads
- Unit Units
- SLo Scale Low
- SHi Scale High
- rLo Range Low
- rHi Range High
- PEE Process Error Enable
- PEL Process Error Low Value
- tyPE Thermistor Curve
- rES Resistance Range
- FiL Filter
- Err Error Latching
- dEC Display Precision
- CAL Calibration Offset **
- AIn Analog Input Value **
- Err Input Error Status **

Lnr
SEt Linearization Menu
- Fn Function
- Unit Units
- iP1 Input Point 1
- oP1 Output Point 1
- iP2 Input Point 2
- oP2 Output Point 2
- iP3 Input Point 3
- oP3 Output Point 3
- iP4 Input Point 4
- oP4 Output Point 4
- iP5 Input Point 5
- oP5 Output Point 5
- iP6 Input Point 6
- oP6 Output Point 6
- iP7 Input Point 7
- oP7 Output Point 7
- iP8 Input Point 8
- oP8 Output Point 8
- iP9 Input Point 9
- oP9 Output Point 9
- iP10 Input Point 10
- oP10 Output Point 10

Pv
SEt Process Value
- Fn Function
- Punt Pressure Units
- Aunt Altitude Units
- FiL Filter

dIO
SEt Digital Input/Output Menu
- S
- dIO Digital Input/Output (5 to 6)
  - dir Direction
  - Fn Output Function
  - Fi Output Function Instance
  - oCt Output Control
  - otb Output Time Base
  - oLo Output Low Power Scale
  - oHi Output High Power Scale

LooP
SEt Control Loop Menu
- hAG Heat Algorithm
- CAG Cool Algorithm
- CCr Cool Output Curve
- hPb Heat Proportional Band **
- hHy Heat Hysteresis **
- CPb Cool Proportional Band **
- CHy Cool Hysteresis **
- ti Time Integral **
- td Time Derivative **
- db Dead Band **
- tEUn Tru-Tune+™ Enable
- tbnd Tru-Tune+™ Band
- tGn Tru-Tune+™ Gain
- AtSP Autotune Set Point
- tAGr Autotune Aggressiveness
- PdL Peltier Delay
- UFA User Failure Action
- FAiL Input Error Failure
- MnPn Fixed Power
- LdE Open Loop Detect Enable
- Ldt Open Loop Detect Time
- Ldd Open Loop Detect Deviation
- rP Ramp Action
- rSC Ramp Scale
- rrt Ramp Rate
- LSP Low Set Point
- HSP High Set Point
- CSP Closed Loop Set Point **
- idS Idle Set Point **
- SPLo Set Point Open Limit Low
- SPHi Set Point Open Limit High
- oSP Open Loop Set Point **
- Cntl Control Mode **

oPt
SEt Output Menu
- 1
- oPt Output (1 to 2)
  - Fn Output Function
  - Fi Output Function Instance
  - oCt Output Control
  - otb Output Time Base
  - oLo Output Low Power Scale
  - oHi Output High Power Scale
- oPt Output 1 process
  - oty Output Type
  - Fn Output Function
  - Fi Output Function Instance
  - SLo Scale Low
  - SHi Scale High
  - rLo Range Low

** These parameters/prompts are available with firmware revisions 11.0 and above.

- rh i **Range High**
- oLo **Output Low Power Scale**
- oho **Output High Power Scale**
- oCA **Calibration Offset**

ALrM
- SEt **Alarm Menu**
  - 1
  - ALrM **Alarm (1 to 4)**
    - AtY **Alarm Type**
    - Sr.A **Alarm Source**
    - AhY **Alarm Hysteresis**
    - AL9 **Alarm Logic**
    - ASd **Alarm Sides**
    - ALo **Alarm Low Set Point ****
    - Ah i **Alarm High Set Point ****
    - ALA **Alarm Latching**
    - AbL **Alarm Blocking**
    - AS i **Alarm Silencing**
    - AdSP **Alarm Display**
    - AdL **Alarm Delay Time**
    - ACLr **Alarm Clear Request**
    - AS ir **Alarm Silence Request**
    - ASt **Alarm State**

Fun
- SEt **Function Key Menu**
  - 1
  - Fun **Function Key (1 to 2)**
    - LEu **Level**
    - Fn **Action Function**
    - F i **Function Instance**

9LbL
- SEt **Global Menu**
  - C_F **Display Units**
  - ACLF **AC Line Frequency**
  - rtYP **Ramping Type**
  - PtYP **Profile Type**
  - 9SE **Guaranteed Soak Enable**
  - 9Sd 1 **Guaranteed Soak Deviation 1**
  - S iA **Source Instance A**
  - S ib **Source Instance B**
  - Pot i **Power Off Time**
  - CLEd **Communications LED Action**
  - ZonE **Zone**
  - ChAn **Channel**

- dPrS **Display Pairs**
- dt i **Display Time**
- USr.S **User Settings Save**
- USr.r **User Settings Restore**

COM
- SEt **Communications Menu**
  - PCoL **Protocol**
  - Ad5 **Standard Bus Address**
  - AdM **Modbus Address**
  - bAUd **Baud Rate**
  - PAr **Parity**
  - MWhL **Modbus Word Order**
  - C_F **Display Units**
  - MMAP **Data Map**
  - nvS **Non-Volatile Save**

rtC*
- SEt **Real Time Clock Menu**
  - hour **Hours**
  - MM in **Minutes**
  - dowd **Day of Week**

* Available with PM4, PM8 and PM9 models only

** These parameters/prompts are available with firmware revisions 11.0 and above.

Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
A1 SEt **Analog Input Menu**								
SEn [SEn]	*Analog Input (1)* **Sensor Type** Set the analog sensor type to match the device wired to this input. **Note:** There is no open-sensor detection for process inputs.	oFF Off (62) tC Thermocouple (95) mV Millivolts (56) volt Volts dc (104) mA Milliamps dc (112) r0.1H RTD 100 Ω (113) r1.0H RTD 1,000 Ω (114) Pot Potentiometer 1 kΩ (155) thEr Thermistor (229)		***Instance 1*** *Map 1* 368 *Map 2* 368	0x68 (104) 1 5	3	4005	uint RWES
Lin [Lin]	*Analog Input (1)* **TC Linearization** Set the linearization to match the thermocouple wired to this input.	b B (11) C C (15) d D (23) E E (26) F F (30) J J (46) K K (48) n N (58) r R (80) S S (84) t T (93)	J	***Instance 1*** *Map 1* 370 *Map 2* 370	0x68 (104) 1 6	4	4006	uint RWES
rtL [rt.L]	*Analog Input (1)* **RTD Leads** Set to match the number of leads on the RTD wired to this input.	2 2 (1) 3 3 (2)	2	***Instance 1*** *Map 1* 372 *Map 2* 368	0x68 (104) 1 7	- - - -	4007	uint RWES
Unit [Unit]	*Analog Input (1)* **Units** Set the type of units the sensor will measure.	AtP Absolute Temperature (1540) rh Relative Humidity (1538) Pro Process (75) PwJr Power (73)	Process	***Instance 1*** *Map 1* - - - - *Map 2* 442	0x68 (104) 1 0x2A (42)	5	4042	uint RWES
S.Lo [S.Lo]	*Analog Input (1)* **Scale Low** Set the low scale for process inputs. This value, in millivolts, volts or milliamps, will correspond to the Range Low output of this function block.	-100.0 to 1,000.0	0.0	***Instance 1*** *Map 1* 388 *Map 2* 388	0x68 (104) 1 0xF (15)	6	4015	float RWES
S.hi [S.hi]	*Analog Input (1)* **Scale High** Set the high scale for process inputs. This value, in millivolts, volts or milliamps, will correspond to the Range High output of this function block.	-100.0 to 1,000.0	20.0	***Instance 1*** *Map 1* 390 *Map 2* 390	0x68 (104) 1 0x10 (16)	7	4016	float RWES
r.Lo [r.Lo]	*Analog Input (1)* **Range Low** Set the low range for this function block's output.	-1,999.000 to 9,999.000	0.0	***Instance 1*** *Map 1* 392 *Map 2* 392	0x68 (104) 1 0x11 (17)	8	4017	float RWES
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
r.hi [r.hi]	*Analog Input (1)* **Range High** Set the high range for this function block's output.	-1,999.000 to 9,999.000	9,999	***Instance 1*** *Map 1* *Map 2* 394 394	0x68 (104) 1 0x12 (18)	9	4018	float RWES
P.EE [P.EE]	*Analog Input (1)* **Process Error Enable** Turn the Process Error Low feature on or off.	oFF Off (62) Lolo Low (53)	Off	***Instance 1*** *Map 1* *Map 2* 418 388	0x68 (104) 1 0x1E (30)	10	4030	uint RWES
P.EL [P.EL]	*Analog Input (1)* **Process Error Low Value** If the process value drops below this value, it will trigger an input error.	-100.0 to 1,000.0	0.0	***Instance 1*** *Map 1* *Map 2* 420 420	0x68 (104) 1 0x1F (31)	11	4031	float RWES
t.C [t.C]	*Analog Input (1)* **Thermistor Curve** Select a curve to apply to the thermistor input.	A Curve A (1451) b Curve B (1452) C Curve C (1453) CUSt Custom (180)	Curve A	***Instance 1*** *Map 1* *Map 2* 434 434	0x68 (104) 1 20x6 (38)	- - - -	4038	uint RWES
r.r [r.r]	*Analog Input (1)* **Resistance Range** Set the maximum resistance of the thermistor input.	5 5K (1448) 10 10K (1360) 20 20K (1361) 40 40K (1449)	40K	***Instance 1*** *Map 1* *Map 2* 432 432	0x68 (104) 1 0x25 (37)	- - - -	4037	uint RWES
F.iL [FiL]	*Analog Input (1)* **Filter** Filtering smooths out the process signal to both the display and the input. Increase the time to increase filtering.	0.0 to 60.0 seconds	0.5	***Instance 1*** *Map 1* *Map 2* 386 386	0x68 (104) 1 0xE (14)	12	4014	float RWES
i.Er [i.Er]	*Analog Input (1)* **Input Error Latching** Turn input error latching on or off. If latching is on, errors must be manually cleared.	oFF Off (62) on On (63)	Off	***Instance 1*** *Map 1* *Map 2* 414 414	0x68 (104) 1 0x1C (28)	- - - -	4028	uint RWES
dEC [dEC]	*Analog Input (1)* **Display Precision** Set the precision of the displayed value.	0 Whole (105) 0.0 Tenths (94) 0.00 Hundredths (40) 0.000 Thousandths (96)	Whole	***Instance 1*** *Map 1* *Map 2* 398 398	0x68 (104) 1 0x14 (20)	- - - -	4020	uint RWES
i.CA [i.CA]	*Analog Input (1)* **Calibration Offset** Offset the input reading to compensate for lead wire resistance or other factors that cause the input reading to vary from the actual process value.	-1,999.000 to 9,999.000°F or units -1,110.555 to 5,555.000°C	0.0	***Instance 1*** *Map 1* *Map 2* 382 382	0x68 (104) 1 0x0C (12)	2	4012	float RWES
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
A in [Ain]	*Analog Input (1)* **Analog Input Value** View the process value. **Note:** Ensure that the Input Error Status (below) indicates no error (61) when reading this value using a field bus protocol. If an error exists, the last known value prior to the error occurring will be returned.	-1,999.000 to 9,999.000°F or units -1,128.000 to 5,537.000°C	- - - -	***Instance 1*** *Map 1* 360 *Map 2* 360	0x68 (104) 1 1	0	4001	float R
i.Er [i.Er]	*Analog Input (1)* **Input Error Status** View the cause of the most recent error. If the AEtn message is Er.i1 or Er.i2, this parameter will display the cause of the input error.	nonE None (61) OPEn Open (65) Shrt Shorted (127) E.rn Measurement Error (149) E.CAL Bad Calibration Data (139) Er.Ab Ambient Error (9) Er.td RTD Error (141) FAiL Fail (32) nSrc Not Sourced (246)	None	***Instance 1*** *Map 1* 362 *Map 2* 362	0x68 (104) 1 2	1	4002	float R
Lnr SEt **Linearization Menu**								
Fn [Fn]	*Linearization (1)* **Function** Set how this function will linearize Source A which is Analog Input 1.	oFF Off (62) intr Interpolated (1482)	Off	***Instance 1*** *Map 1* - - - - *Map 2* 3568	0x86 (134) 1 5	155	34005	uint RWES
Unit [Unit]	*Linearization (1)* **Units** Set the units of Source A which is Analog Input 1.	nonE None (61) Src Source (1539) rh Relative Humidty (1538) Pro Process (75) PwJr Power (73) r.tP Relative Temperature (1541) A.tP Absolute Temperature (1540)	Source	***Instance 1*** *Map 1* - - - - *Map 2* 3616	0x86 (134) 1 0x29 (41)	156	34029	uint RWES
iP.1 [ip.1]	*Linearization (1)* **Input Point 1** Set the value that will be mapped to output 1.	-1,999.000 to 9,999.000	0.0	***Instance 1*** *Map 1* - - - - *Map 2* 3574	0x86 (134) 1 8	157	34008	float RWES
oP.1 [op.1]	*Linearization (1)* **Output Point 1** Set the value that will be mapped to input 1.	-1,999.000 to 9,999.000	0.0	***Instance 1*** *Map 1* - - - - *Map 2* 3594	0x86 (134) 1 0x12 (18)	158	34018	float RWES
iP.2 [ip.2]	*Linearization (1)* **Input Point 2** Set the value that will be mapped to output 2.	-1,999.000 to 9,999.000	1.0	***Instance 1*** *Map 1* - - - - *Map 2* 3576	0x86 (134) 1 9	159	34009	float RWES
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oP.2 [op.2]	*Linearization (1)* **Output Point 2** Set the value that will be mapped to input 2.	-1,999.000 to 9,999.000	1.0	***Instance 1*** *Map 1* - - - - *Map 2* 3597	0x86 (134) 1 0x13 (19)	160	34019	float RWES
iP.3 [ip.3]	*Linearization (1)* **Input Point 3** Set the value that will be mapped to output 3.	-1,999.000 to 9,999.000	2.0	***Instance 1*** *Map 1* - - - - *Map 2* 3578	0x86 (134) 1 0xA (10)	161	34010	float RWES
oP.3 [op.3]	*Linearization (1)* **Output Point 3** Set the value that will be mapped to input 3.	-1,999.000 to 9,999.000	2.0	***Instance 1*** *Map 1* - - - - *Map 2* 3598	0x86 (134) 1 0x14 (20)	162	34020	float RWES
iP.4 [ip.4]	*Linearization (1)* **Input Point 4** Set the value that will be mapped to output 4.	-1,999.000 to 9,999.000	3.0	***Instance 1*** *Map 1* - - - - *Map 2* 3581	0x86 (134) 1 0xB (11)	163	34011	float RWES
oP.4 [op.4]	*Linearization (1)* **Output Point 4** Set the value that will be mapped to input 4.	-1,999.000 to 9,999.000	3.0	***Instance 1*** *Map 1* - - - - *Map 2* 3600	0x86 (134) 1 0x15 (21)	164	34021	float RWES
iP.5 [ip.5]	*Linearization (1)* **Input Point 5** Set the value that will be mapped to output 5.	-1,999.000 to 9,999.000	4.0	***Instance 1*** *Map 1* - - - - *Map 2* 3582	0x86 (134) 1 0xC (12)	165	34012	float RWES
oP.5 [op.5]	*Linearization (1)* **Output Point 5** Set the value that will be mapped to input 5.	-1,999.000 to 9,999.000	4.0	***Instance 1*** *Map 1* - - - - *Map 2* 3602	0x86 (134) 1 0x16 (22)	166	34022	float RWES
iP.6 [ip.6]	*Linearization (1)* **Input Point 6** Set the value that will be mapped to output 6.	-1,999.000 to 9,999.000	5.0	***Instance 1*** *Map 1* - - - - *Map 2* 3584	0x86 (134) 1 0xD (13)	167	34013	float RWES
oP.6 [op.6]	*Linearization (1)* **Output Point 6** Set the value that will be mapped to input 6.	-1,999.000 to 9,999.000	5.0	***Instance 1*** *Map 1* - - - - *Map 2* 3604	0x86 (134) 1 0x17 (23)	168	34023	float RWES
iP.7 [ip.7]	*Linearization (1)* **Input Point 7** Set the value that will be mapped to output 7.	-1,999.000 to 9,999.000	6.0	***Instance 1*** *Map 1* - - - - *Map 2* 3586	0x86 (134) 1 0xE (14)	169	34014	float RWES
oP.7 [op.7]	*Linearization (1)* **Output Point 7** Set the value that will be mapped to input 7.	-1,999.000 to 9,999.000	6.0	***Instance 1*** *Map 1* - - - - *Map 2* 3606	0x86 (134) 1 0x18 (24)	170	34024	float RWES
iP.8 [ip.8]	*Linearization (1)* **Input Point 8** Set the value that will be mapped to output 8.	-1,999.000 to 9,999.000	7.0	***Instance 1*** *Map 1* - - - - *Map 2* 3588	0x86 (134) 1 0xF (15)	171	34015	float RWES
oP.8 [op.8]	*Linearization (1)* **Output Point 8** Set the value that will be mapped to input 8.	-1,999.000 to 9,999.000	7.0	***Instance 1*** *Map 1* - - - - *Map 2* 3608	0x86 (134) 1 0x19 (25)	172	34025	float RWES
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iP.9 [ip.9]	*Linearization (1)* **Input Point 9** Set the value that will be mapped to output 9.	-1,999.000 to 9,999.000	8.0	***Instance 1*** *Map 1* - - - - *Map 2* 3590	0x86 (134) 1 0x10 (16)	173	34016	float RWES
oP.9 [op.9]	*Linearization (1)* **Output Point 9** Set the value that will be mapped to input 9.	-1,999.000 to 9,999.000	8.0	***Instance 1*** *Map 1* - - - - *Map 2* 3610	0x86 (134) 1 0x1A (26)	174	34026	float RWES
iP.10 [ip.10]	*Linearization (1)* **Input Point 10** Set the value that will be mapped to output 10.	-1,999.000 to 9,999.000	9.0	***Instance 1*** *Map 1* - - - - *Map 2* 3592	0x86 (134) 1 0x11 (17)	175	34017	float RWES
oP.10 [op.10]	*Linearization (1)* **Output Point 10** Set the value that will be mapped to input 10.	-1,999.000 to 9,999.000	9.0	***Instance 1*** *Map 1* - - - - *Map 2* 3612	0x86 (134) 1 0x1B (27)	176	34027	float RWES
Pu SEt **Process Value Menu**								
Fn [Fn]	*Process Value (1)* **Function** Set the function that will be applied to the source or sources.	oFF Off (62) ALt *Pressure to Altitude (1649)	Off	***Instance 1*** *Map 1* - - - - *Map 2* 3320	0x7E (126) 1 0x15 (21)	123	26021	uint RWES
P.unt [P.unt]	*Process Value (1)* **Pressure Units*** Set the units that will be applied to the source.	PSI Pounds per Square Inch (1671) PASc Pascal (1674) ATM Atmosphere (1675) mbr Millibar (1672) torr Torr (1673)	PSI	***Instance 1*** *Map 1* - - - - *Map 2* 3334	0x7E (126) 1 0x1C (28)	- - - -	26028	uint RWES
A.unt [A.unt]	*Process Value (1)* **Altitude Units*** Set the units that will be applied to the source.	HFt Kilofeet (1677) Ft Feet (1676)	HFt	***Instance 1*** *Map 1* - - - - *Map 2* 3336	0x7E (126) 1 0x1D (29)	- - - -	26029	uint RWES
F.iL [FiL]	*Process Value (1)* **Filter** Filtering smooths out the output signal of this function block. Increase the time to increase filtering.	0.0 to 60.0 seconds	0.0	***Instance 1*** *Map 1* - - - - *Map 2* 3330	0x7E (126) 1 0x1A (26)	- - - -	26026	float RWES
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* Pressure Altitude calculation is based on the International Standard Atmosphere, 1976

Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
d io SEt **Digital Input/Output Menu**								
d ir [dir]	*Digital Input/Output (5 to 6)* **Digital I/O Direction** Set this function to operate as an input or output.	otPt Output (68) iCon Input Dry Contact (44) in Input Voltage (193)	Output	***Instance 1*** *Map 1* 1000 *Map 2* 1120 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 5 to 6 1	82	6001	uint RWES
Fn [Fn]	*Digital Output (5 to 6)* **Output Function** Select what function will drive this output.	oFF Off (62) Limit (126) Ent.b Profile Event Out B (234) Ent.A Profile Event Out A (233) SoF.2 Special Function Output 2 (1533) SoF.1 Special Function Output 1 (1532) Cool Cool (161) hEAt Heat (160) ALM Alarm (6)	Off	***Instance 1*** *Map 1* 1008 *Map 2* 1128 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 1 to 2 5	83	6005	uint RWES
F i [Fi]	*Digital Output (5 to 6)* **Output Function Instance** Set the instance of the function selected above.	1 to 4	1	***Instance 1*** *Map 1* 1010 *Map 2* 1130 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 5 to 6 6	84	6006	uint RWES
o.Ct [o.Ct]	*Digital Output (5 to 6)* **Output Control** Set the output control type. This parameter is only used with PID control, but can be set anytime.	Ftb Fixed Time Base (34) vtb Variable Time Base (103)	Fixed Time Base	***Instance 1*** *Map 1* 1002 *Map 2* 1122 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 5 to 6 2	85	6002	uint RWES
o.tb [o.tb]	*Digital Output (5 to 6)* **Output Time Base** Set the time base for fixed-time-base control.	[0.1 for Fast and Bi-Directional outputs, 5.0 for Slow outputs] to 60	- - - -	***Instance 1*** *Map 1* 1016 *Map 2* 1124 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 5 to 6 3	86	6003	float RWES
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o.Lo [o.Lo]	*Digital Output (5 to 6)* **Output Low Power Scale** The power output will never be less than the value specified and will represent the value at which output scaling begins.	0.0 to 100.0	0.0	***Instance 1*** *Map 1* 1016 *Map 2* 1136 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 5 to 6 9	87	6009	float RWES
o.hi [o.hi]	*Digital Output (5 to 6)* **Output High Power Scale** The power output will never be greater than the value specified and will represent the value at which output scaling stops.	0.0 to 100.0	100.0	***Instance 1*** *Map 1* 1018 *Map 2* 1138 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 5 to 6 0xA (10)	88	6010	float RWES
LEv [LEv]	*Digital Input (5 to 6)* **Action Level** Select which action will be interpreted as a true state.	High High (37) Low Low (53)	High	***Instance 1*** *Map 1* 1320 *Map 2* 1560 Offset to next instance (*Map 1 & Map 2*) equals +20	0x6E (110) 5 to 6 1	137	10001	uint RW
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
Fn [Fn]	*Digital Input (5 to 6)* **Action Function** Select the function that will be triggered by a true state for Digital Input 5 and or 6.	nonE None (61) SStP Start Step (1077) PStS Profile Start/Stop, level triggered (208) ProF Start Profile, edge triggered (196) PhoL Profile Hold/ Resume, level triggered (207) Pd iS Profile Disable, level triggered (206) tdA TRU-TUNE+® Disable, level triggered (219) oFF Switch Control Loop Off, level triggered (90) MAn Manual, level triggered (54) tUnE Tune, edge triggered (98) idLE Idle Set Point, level triggered (107) FAL Force Alarm To Occur, level triggered (218) AoF Control Loops Off and Alarms to Non-alarm State, level triggered (220) S iL Silence Alarms, edge triggered (108) ALM Alarm Reset, edge triggered (6) PLoC Keypad Lockout, level triggered (217) uSr.r User Set Restore, edge triggered (227) LMr Limit Reset, edge triggered (82)	None	***Instance 1*** *Map 1* 1324 *Map 2* 1564 Offset to next instance (*Map 1 & Map 2*) equals +20	0x6E (110) 1 to 2 3	138	10003	uint RWES
Fi [Fi]	*Digital Input (5 to 7)* **Function Instance** Select which Digital Input will be triggered by a true state.	0 to 4	0	***Instance 1*** *Map 1* 1326 *Map 2* 1566 Offset to next instance (*Map 1 & Map 2*) equals +20	0x6E (110) 5 to 7 4	139	10004	uint RWES
LooP SEt **Control Loop Menu**								
h.Ag [h.Ag]	*Control Loop (1)* **Heat Algorithm** Set the heat control method.	oFF Off (62) Pid PID (71) onoF On-Off (64)	PID	***Instance 1*** *Map 1* 1884 *Map 2* 2364	0x97 (151) 1 3	72	8003	uint RWES
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read W: Write E: EEPROM S: User Set**

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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
C.Ag [C.Ag]	*Control Loop (1)* **Cool Algorithm** Set the cool control method.	oFF Off (62) P id PID (71) on.oF On-Off (64)	Off	***Instance 1*** *Map 1* *Map 2* 1886 2366	0x97 (151) 1 4	73	8004	uint RWES
C.Cr [C.Cr]	*Control Loop (1)* **Cool Output Curve** Select a cool output curve to change the responsiveness of the system.	oFF Off (62) Cr.A Non-linear Curve 1 (214) Cr.b Non-linear Curve 2 (215)	Off	***Instance 1*** *Map 1* *Map 2* 1888 2368	0x97 (151) 1 5	- - - -	8038	uint RWES
h.Pb [h.Pb]	*Control Loop (1)* **Heat Proportional Band** Set the PID proportional band for the heat outputs.	0.001 to 9,999.000°F or units -1,110.555 to 5,555.000°C	25.0°F or units 14.0°C	***Instance 1*** *Map 1* *Map 2* 1890 2370	0x97 (151) 1 6	65	8009	float RWES
h.hy [h.hy]	*Control Loop (1)* **Heat Hysteresis** Set the control switching hysteresis for on-off control. This determines how far into the "on" region the process value needs to move before the output turns on.	0.001 to 9,999.000°F or units 0.001 to 5,555.000°C	3.0°F or units 2.0°C	***Instance 1*** *Map 1* *Map 2* 1900 2380	0x97 (151) 1 0xB (11)	66	8010	float RWES
C.Pb [C.Pb]	*Control Loop (1)* **Cool Proportional Band** Set the PID proportional band for the cool outputs.	0.001 to 9,999.000°F or units 0.001 to 5,555.000°C	25.0°F or units 14.0°C	***Instance 1*** *Map 1* *Map 2* 1892 2370	0x97 (151) 1 7	67	8012	float RWES
C.hy [C.hy]	*Control Loop (1)* **Cool Hysteresis** Set the control switching hysteresis for on-off control. This determines how far into the "on" region the process value needs to move before the output turns on.	0.001 to 9,999.000°F or units 0.001 to 5,555.000°C	3.0°F or units 2.0°C	***Instance 1*** *Map 1* *Map 2* 1902 2382	0x97 (151) 1 0xC (12)	68	8013	float RWES
t i [ti]	*Control Loop (1)* **Time Integral** Set the PID integral for the outputs.	0 to 9,999 seconds per repeat	180.0 seconds per repeat	***Instance 1*** *Map 1* *Map 2* 1894 2374	0x97 (151) 1 8	69	8006	float RWES
t d [td]	*Control Loop (1 to 2)* **Time Derivative** Set the PID derivative time for the outputs.	0 to 9,999 seconds	0.0 seconds	***Instance 1*** *Map 1* *Map 2* 1896 2376	0x97 (151) 1 9	70	8007	float RWES
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read** **W: Write** **E: EEPROM** **S: User Set**

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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
db [db]	*Control Loop (1)* **Dead Band** Set the offset to the proportional band. With a negative value, both heating and cooling outputs are active when the process value is near the set point. A positive value keeps heating and cooling outputs from fighting each other.	-1,000.0 to 1,000.0°F or units -556 to 556°C	0.0	***Instance 1*** *Map 1* *Map 2* 1898 2378	0x97 (151) 1 0xA (10)	71	8008	float RWES
t.tUn [t.tUn]	*Control Loop (1)* **TRU-TUNE+™ Enable** Enable or disable the TRU-TUNE+™ adaptive tuning feature.	no No (59) YES Yes (106)	No	***Instance 1*** *Map 1* *Map 2* 1910 2390	0x97 (151) 1 0x10 (16)	- - - -	8022	uint RWES
t.bnd [t.bnd]	*Control Loop (1)* **TRU-TUNE+™ Band** Set the range, centered on the set point, within which TRU-TUNE+™ will be in effect. Use this function only if the controller is unable to adaptive tune automatically.	0 to 100	0	***Instance 1*** *Map 1* *Map 2* 1912 2392	0x97 (151) 1 0x11 (17)	- - - -	8034	uint RWES
t.gn [t.gn]	*Control Loop (1)* **TRU-TUNE+™ Gain** Select the responsiveness of the TRU-TUNE+™ adaptive tuning calculations. More responsiveness may increase overshoot.	1 to 6	3	***Instance 1*** *Map 1* *Map 2* 1914 2394	0x97 (151) 1 0x12 (18)	- - - -	8035	uint RWES
t.Agr [t.Agr]	*Control Loop (1)* **Autotune Aggressiveness** Select the aggressiveness of the autotuning calculations.	Undr Under damped (99) Crit Critical damped (21) OvEr Over damped (69)	Critical	***Instance 1*** *Map 1* *Map 2* 1916 2396	0x97 (151) 1 0x13 (19)	- - - -	8024	uint RWES
P.dL [P.dL]	*Control Loop (1)* **Peltier Delay** Set a value that will cause a delay when switching from heat mode to cool mode.	0.0 to 5.0	0.0	***Instance 1*** *Map 1* *Map 2* - - - - - - - -	0x97 (151) 1 0x1C (28)	- - - -	8051	float RWES
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read** **W: Write** **E: EEPROM** **S: User Set**

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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
UFA [UFA]	*Control Loop (1)* **User Failure Action** Select what the controller outputs will do when the user switches control to manual mode.	oFF Off, sets output power to 0% (62) bPLS Bumpless Transfer, maintains same output power, if it was less than 75% and stable, otherwise 0% (14) MAn Fixed Power, sets output power to Fixed Power setting (33) USEr User, sets output power to last open-loop set point the user entered (100)	User	***Instance 1*** *Map 1* 2182 *Map 2* 2662	0x6B (107) 1 0xC (12)	- - - -	7012	uint RWES
FAiL [FAiL]	*Control Loop (1)* **Input Error Failure** Select what the controller outputs will do when an input error switches control to manual mode.	oFF Off, sets output power to 0% (62) bPLS Bumpless, maintains same output power, if it was less than 75% and stable, otherwise 0% (14) MAn Fixed Power, sets output power to Fixed Power setting (33) USEr User, sets output power to last open-loop set point the user entered (100)	User	***Instance 1*** *Map 1* 2184 *Map 2* 2664	0x6B (107) 1 0xD (13)	- - - -	7013	uint RWES
MAn [MAn]	*Control Loop (1)* **Fixed Power** Set the manual output power level that will take effect if an input error failure occurs while User Failure Action is set to Manual Fixed.	Set Point Open Loop Limit Low to Set Point Open Loop Limit High (Setup Page)	0.0	***Instance 1*** *Map 1* 2180 *Map 2* 2660	0x6B (107) 1 0xB (11)	- - - -	7011	float RWES
L.dE [L.dE]	*Control Loop (1)* **Open Loop Detect Enable** Turn on the open-loop detect feature to monitor a closed-loop operation for the appropriate response.	no No (59) YES Yes (106)	No	***Instance 1*** *Map 1* 1922 *Map 2* 2402	0x97 (151) 1 0x16 (22)	74	8039	uint RWES
L.dt [L.dt]	*Control Loop (1)* **Open Loop Detect Time** The Open Loop Detect Deviation value must occur for this time period to trigger an open-loop error.	0 to 3,600 seconds	240	***Instance 1*** *Map 1* 1924 *Map 2* 2404	0x97 (151) 1 0x17 (23)	75	8040	uint RWES
L.dd [L.dd]	*Control Loop (1)* **Open Loop Detect Deviation** Set the value that the process must deviate from the set point to trigger an open-loop error.	-1,999.000 to 9,999.000°F or units -1,110.555 to 5,555.000°C	10.0°F or units 6.0°C	***Instance 1*** *Map 1* 1926 *Map 2* 2406	0x97 (151) 1 0x18 (24)	76	8041	float RWES
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
rP [rP]	*Control Loop (1)* **Ramp Action** Select when the controller's set point will ramp to the defined end set point.	oFF Off (62) Str Startup (88) StPt Set Point Change (85) both Both (13)	Off	***Instance 1*** *Map 1* *Map 2* 2186 2666	0x6B (107) 1 0xE (14)	56	7014	uint RWES
r.SC [r.SC]	*Control Loop (1)* **Ramp Scale** Select the scale of the ramp rate.	hour Hours (39) Min Minutes (57)	Minutes	***Instance 1*** *Map 1* *Map 2* 2188 2668	0x6B (107) 1 0xF (15)	57	7015	uint RWES
r.rt [r.rt]	*Control Loop (1)* **Ramp Rate** Set the rate for the set point ramp. Set the time units for the rate with the Ramp Scale parameter.	0.0 to 9,999.000°F or units 0.0 to 5,555.000°C	1.0°F or units 1.0°C	***Instance 1*** *Map 1* *Map 2* 2192 2672	0x6B (107) 1 0x11 (17)	58	7017	float RWES
L.SP [L.SP]	*Control Loop (1)* **Low Set Point** Set the minimum value of the closed loop set point range.	-1,999.000 to 9,999.000°F or units -1,128.000 to 5,537.000°C	-1,999°F or units -1,128°C	***Instance 1*** *Map 1* *Map 2* 2164 2644	0x6B (107) 1 to 2 3	52	7003	float RWES
h.SP [h.SP]	*Control Loop (1)* **High Set Point** Set the maximum value of the closed loop set point range..	-1,999.000 to 9,999.000°F or units -1,128.000 to 5,537.000°C	-1,999°F or units -1,128°C	***Instance 1*** *Map 1* *Map 2* 2166 2646	0x6B (107) 1 4	53	7004	float RWES
C.SP [C.SP]	*Control Loop (1)* **Closed Loop Set Point** Set the set point that the controller will automatically control to.	Low Set Point to High Set Point (Setup Page)	75.0°F or units 24.0°C	***Instance 1*** *Map 1* *Map 2* 2160 2640	0x6B (107) 1 1	49	7001	float RWES
id.S [id.S]	*Control Loop (1)* **Idle Set Point** Set a closed loop set point that can be triggered by an event state.	Low Set Point to High Set Point (Setup Page)	75.0°F or units 24.0°C	***Instance 1*** *Map 1* *Map 2* 2176 2656	0x6B (107) 1 9	50	7009	float RWES
SP.Lo [SP.Lo]	*Control Loop (1)* **Set Point Open Limit Low** Set the minimum value of the open-loop set point range.	-100 to 100%	-100	***Instance 1*** *Map 1* *Map 2* 2168 2649	0x6B (107) 1 5	54	7005	float RWES
SP.hi [SP.hi]	*Control Loop (1)* **Set Point Open Limit High** Set the maximum value of the open-loop set point range.	-100 to 100%	100	***Instance 1*** *Map 1* *Map 2* 2170 2650	0x6B (107) 1 6	55	7006	float RWES
C.M [C.M]	*Control Loop (1)* **Control Mode** Select the method that this loop will use to control.	oFF Off (62) Auto Auto (10) Man Manual (54)	Auto	***Instance 1*** *Map 1* *Map 2* 1880 2360	0x97 (151) 1 1	63	8001	uint RWES
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read** **W: Write** **E: EEPROM** **S: User Set**

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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
oUPt SEt **Output Menu**								
Fn [Fn]	*Output Digital (1 to 2)* **Output Function** Select what function will drive this output.	oFF Off (62) Ent.b Profile Event Out B (234) Ent.A Profile Event Out A (233) CooL Cool (20) hEAt Heat (36) ALrM Alarm (6)	Output 1 - Heat Output 2 - Alarm Output 3 - Off Output 4 - Off	***Instance 1*** *Map 1* 888 *Map 2* 1008 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 1 to 2 5	83	6005	uint RWES
Fi [Fi]	*Output Digital (1 to 2)* **Output Function Instance** Set the instance of the function selected above.	1 to 2	1	***Instance 1*** *Map 1* 890 *Map 2* 1010 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 1 to 2 6	84	6006	uint RWES
o.Ct [o.Ct]	*Output Digital (1 to 2)* **Output Control** Set the output control type. This parameter is only used with PID control, but can be set anytime.	FtB Fixed Time Base (34) vtb Variable Time Base (103)	Fixed Time Base	***Instance 1*** *Map 1* 882 *Map 2* 1002 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 1 to 4 2	85	6002	uint RWES
o.tb [o.tb]	*Output Digital (1 to 2)* **Output Time Base** Set the time base for fixed-time-base control.	0.1 to 60.0 seconds (solid-state relay or switched dc) 5.0 to 60.0 seconds (mechanical relay or no-arc power control)	0.1 sec. [SSR & sw dc] 20.0 sec. [mech, relay, no-arc]	***Instance 1*** *Map 1* 884 *Map 2* 1004 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 1 to 2 3	86	6003	float RWES
o.Lo [o.Lo]	*Output Digital (1 to 2)* **Output Low Power Scale** The power output will never be less than the value specified and will represent the value at which output scaling begins.	0.0 to 100.0%	0.0%	***Instance 1*** *Map 1* 896 *Map 2* 1016 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 1 to 2 9	87	6009	float RWES
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read** **W: Write** **E: EEPROM** **S: User Set**

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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
o.hi [o.hi]	*Output Digital (1 to 2)* **Output High Power Scale** The power output will never be greater than the value specified and will represent the value at which output scaling stops.	0.0 to 100.0%	100.0%	***Instance 1*** *Map 1* 898 *Map 2* 1018 Offset to next instance (*Map 1 & Map 2*) equals +30	0x6A (106) 1 to 2 0xA (10)	88	6010	float RWES
o.ty [o.ty]	*Output Process (1)* **Output Type** Select whether the process output will operate in volts or milliamps.	volt Volts (104) mA Milliamps (112)	Volts	***Instance 1*** *Map 1* 720 *Map 2* 840	0x76 (118) 1 1	95	18001	uint RWES
Fn [Fn]	*Output Process (1)* **Output Function** Set the type of function that will drive this output.	oFF Off (62) duPL Duplex (212) Cool Cool (20) hEAt Heat (36) rmt Retransmit (213) Evt.b Profile Event Out B (234) Evt.A Profile Event Out A (233) ALM Alarm (6)	Off	***Instance 1*** *Map 1* 722 *Map 2* 842	0x76 (118) 1 2	96	18002	uint RWES
r.Sr [r.Sr]	*Output Process (1)* **Retransmit Source** Select the value that will be retransmitted.	AI Analog Input (142) SEPt Set Point (85) Curr Current (22) Pv Process Value (241)	Analog Input	***Instance 1*** *Map 1* 724 *Map 2* 844	0x76 (118) 1 3	97	18003	uint RWES
Fi [Fi]	*Output Process (1)* **Output Function Instance** Set the instance of the function selected above.	1 to 4	1	***Instance 1*** *Map 1* 726 *Map 2* 846	0x76 (118) 1 4	98	18004	uint RWES
S.Lo [S.Lo]	*Output Process (1)* **Scale Low** Set the minimum value of the output range.	-100.0 to 100.0	0.00	***Instance 1*** *Map 1* 736 *Map 2* 856	0x76 (118) 1 9	99	18009	float RWES
S.hi [S.hi]	*Output Process (1)* **Scale High** Set the maximum value of the output range.	-100.0 to 100.0	10.00	***Instance 1*** *Map 1* 738 *Map 2* 858	0x76 (118) 1 0xA (10)	100	18010	float RWES
r.Lo [r.Lo]	*Output Process (1)* **Range Low** Set the minimum value of the retransmit value range in process units. When the retransmit source is at this value, the retransmit output will be at its Scale Low value.	-1,999.000 to 9,999.000°F or units -1,128.000 to 5,537.000°C	0.0°F or units -18°C	***Instance 1*** *Map 1* 740 *Map 2* 860	0x76 (118) 1 0xB (11)	101	18011	float RWES
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
r.hi [r.hi]	*Output Process (1)* **Range High** Set the maximum value of the retransmit value range in process units. When the retransmit source is at this value, the retransmit output will be at its Scale High value.	-1,999.000 to 9,999.000°F or units -1,128.000 to 5,537.000°C	9,999.0°F or units 5,537.0°C	***Instance 1*** *Map 1* *Map 2* 742 862	0x76 (118) 1 0xC (12)	102	18012	float RWES
o.Lo [o.Lo]	*Output Process (1)* **Output Low Power Scale** The power output will never be less than the value specified and will represent the value at which power scaling begins.	0.0 to 100%	0.0%	***Instance 1*** *Map 1* *Map 2* 744 864	0x76 (118) 1 0x0D (13)	103	18013	float RWES
o.hi [o.hi]	*Output Process (1)* **Output High Power Scale** The power output will never be greater than the value specified and will represent the value at which power scaling stops.	0.0 to 100%	100%	***Instance 1*** *Map 1* *Map 2* 746 866	0x76 (118) 1 0x0E (14)	104	18014	float RWES
o.CA [o.CA]	*Output Process (1)* **Calibration Offset** Set an offset value for a process output.	-1,999.000 to 9,999.000°F or units -1,110.555 to 5,555.000°C	0.0°F or units 0.0°C	***Instance 1*** *Map 1* *Map 2* 732 852	0x76 (118) 1 7	105	18007	float RWES
ALM1 SEt **Alarm Menu**								
A.ty [A.ty]	*Alarm (1 to 4)* **Alarm Type** Select whether the alarm trigger is a fixed value or will track the set point.	oFF Off (62) Pr.AL Process Alarm (76) dE.AL Deviation Alarm (24)	Off	***Instance 1*** *Map 1* *Map 2* 1508 1908 Offset to next instance (*Map 1 & Map 2*) equals +60	0x6D (109) 1 to 4 0xF (15)	20	9015	uint RWES
Sr.A [Sr.A]	*Alarm (1 to 4)* **Alarm Source** Select what will trigger this alarm.	A1 Analog Input (142) PWJr Power (73) Pu Process Value (241) Lnr Linearization (238) CUrr Current (22)	If Alarm type is set to Deviation or Process.	***Instance 1*** *Map 1* *Map 2* 1512 1912 Offset to next instance (*Map 1 & Map 2*) equals +60	0x6D (109) 1 to 4 0x11 (17)	21	9017	uint RWES
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read** **W: Write** **E: EEPROM** **S: User Set**

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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
A.hy [A.hy]	*Alarm (1 to 4)* **Alarm Hysteresis** Set the hysteresis for an alarm. This determines how far into the safe region the process value needs to move before the alarm can be cleared.	0.001 to 9,999.000°F or units 0.001 to 5,555.000°C	1.0°F or units 1.0°C	***Instance 1*** *Map 1* 1484 *Map 2* 1884 Offset to next instance (*Map 1 equals +50, for Map 2* equals +60)	0x6D (109) 1 to 4 3	24	9003	float RWES
A.Lg [A.Lg]	*Alarm (1 to 4)* **Alarm Logic** Select what the output condition will be during the alarm state.	A.L.C Close On Alarm (17) A.L.o Open On Alarm (66)	Close On Alarm	***Instance 1*** *Map 1* 1488 *Map 2* 1888 Offset to next instance (*Map 1 equals +50, for Map 2* equals +60)	0x6D (109) 1 to 4 5	25	9005	uint RWES
A.Sd [A.Sd]	*Alarm (1 to 4)* **Alarm Sides** Select which side or sides will trigger this alarm.	both Both (13) high High (37) Lolo Low (53)	Both	***Instance 1*** *Map 1* 1486 *Map 2* 1886 Offset to next instance (*Map 1 equals +50, for Map 2* equals +60)	0x6D (109) 1 to 4 4	26	9004	uint RWES
A.LA [A.LA]	*Alarm (1 to 4)* **Alarm Latching** Turn alarm latching on or off. A latched alarm has to be turned off by the user.	nLAt Non-Latching (60) LAt Latching (49)	Non-Latching	***Instance 1*** *Map 1* 1492 *Map 2* 1892 Offset to next instance (*Map 1 equals +50, for Map 2* equals +60)	0x6D (109) 1 to 4 7	27	9007	uint RWES
A.Lo [A.Lo]	*Alarm (1 to 4)* **Alarm Low Set Point** If Alarm Type (Setup Page, Alarm Menu) is set to: **process** - set the process value that will trigger a low alarm. **deviation** - set the span of units from the closed loop set point that will trigger a low alarm. A negative set point represents a value below closed loop set point. A positive set point represents a value above closed loop set point.	-1,999.000 to 9,999.000°F or units -1,128.000 to 5,537.000°C	32.0°F or units 0.0°C	***Instance 1*** *Map 1* 1482 *Map 2* 1882 Offset to next instance (*Map 1*) equals +50 Offset to next instance (*Map 2*) equals +60	0x6D (109) 1 to 4 2	18	9002	float RWES
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read** **W: Write** **E: EEPROM** **S: User Set**

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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
A.hi [A.hi]	*Alarm (1 to 4)* **Alarm High Set Point** If Alarm Type (Setup Page, Alarm Menu) is set to: **process** - set the process value that will trigger a high alarm. **deviation** - set the span of units from the closed loop set point that will trigger a high alarm.	-1,999.000 to 9,999.000°F or units -1,128.000 to 5,537.000°C	300.0°F or units 150.0°C	***Instance 1*** *Map 1* *Map 2* 1480 1880 Offset to next instance (*Map 1*) equals +50 Offset to next instance (*Map 2*) equals +60	0x6D (109) 1 to 4 1	19	9001	float RWES
A.bL [A.bL]	*Alarm (1 to 4)* **Alarm Blocking** Select when an alarm will be blocked. After startup and/or after the set point changes, the alarm will be blocked until the process value enters the normal range.	oFF Off (62) Str Startup (88) StPt Set Point (85) both Both (13)	Off	***Instance 1*** *Map 1* *Map 2* 1494 1894 Offset to next instance (*Map 1 equals +50, for Map 2* equals +60)	0x6D (109) 1 to 4 8	28	9008	uint RWES
A.Si [A.Si]	*Alarm (1 to 4)* **Silencing** Turn alarm silencing on to allow the user to disable this alarm.	oFF Off (62) on On (63)	Off	***Instance 1*** *Map 1* *Map 2* 1490 1890 Offset to next instance (*Map 1 equals +50, for Map 2* equals +60)	0x6D (109) 1 to 4 6	29	9006	uint RWES
A.dSP [A.dSP]	*Alarm (1 to 4)* **Display** Display an alarm message when an alarm is active.	oFF Off (62) on On (63)	On	***Instance 1*** *Map 1* *Map 2* 1510 1910 Offset to next instance (*Map 1 equals +50, for Map 2* equals +60)	0x6D (109) 1 to 4 0x10 (16)	30	9016	uint RWES
A.dL [A.dL]	*Alarm (1 to 4)* **Delay** Set the span of time that the alarm will be delayed after the process value exceeds the alarm set point.	0 to 9,999 seconds	0	***Instance 1*** *Map 1* *Map 2* 1520 1920 Offset to next instance (*Map 1 equals +50, for Map 2* equals +60)	0x6D (109) 1 to 4 0x15 (21)	31	9021	uint RWES
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read** **W: Write** **E: EEPROM** **S: User Set**

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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
FUn SEt **Function Key Menu**								
LEu [LEv]	*Function Key (1 to 2)* **Active Level** The Function Key will always power up in the low state. Pressing the Function Key will toggle the selected action.	hIGh High (37) LoUJ Low (53)	High	***Instance 1*** *Map 1* *Map 2* 1360 1600 ***Instance 2*** *Map 1* *Map 2* 1380 1620	0x6E (110) 1 to 2 1	137	10001	uint RWES
Fn [Fn]	*Function Key (1 to 2)* **Action Function** Program the EZ Key to trigger an action. Functions respond to a level state change or an edge level change.	nonE None (61) uSr.r User Set Restore, edge triggered (227) PLoC Keypad Lockout, level triggered (217) ALrM Alarm Reset, edge triggered (6) S IL Silence Alarms, edge triggered (108) AoF Control Loops Off and Alarms to Non-alarm State, level triggered (220) F.AL Force Alarm To Occur, level triggered (218) IdLE Idle Set Point, level triggered (107) tUnE Tune, edge triggered (98) MAn Manual Mode, level triggered (54) oFF Switch Control Loop Off, level triggered (90) t.dA TRU-TUNE+® Disable, level triggered (219) P.d IS Profile Disable, level triggered (206) P.hoL Profile Hold/ Resume, level triggered (207) PrOF Start Profile, edge triggered (196) P.StS Profile Start/Stop, level triggered (208) SStP Start Step (1077)	None	***Instance 1*** *Map 1* *Map 2* 1364 1604 ***Instance 2*** *Map 1* *Map 2* 1384 1624	0x6E (110) 1 to 2 3	138	10003	uint RWES
F I [Fi]	*Function Key (1 to 2)* **Function Instance** Select which instance the EZ Key will affect. If only one instance is available, any selection will affect it.	0 to 4	0	***Instance 1*** *Map 1* *Map 2* 1364 1606 ***Instance 2*** *Map 1* *Map 2* 1384 1626	0x96 (110) 1 to 2 4	139	10004	uint RWES
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
GLbL SEt **Global Menu**								
C_F [C_F]	*Global* **Display Units** Select which scale to use for temperature.	F °F (30) C °C (15)	°F	***Instance 1*** *Map 1* *Map 2* 1838 2308	0x67 (103) 1 5	110	3005	uint RWES
AC.LF [AC.LF]	*Global* **AC Line Frequency** Set the frequency to the applied ac line power source.	50 50 Hz (3) 60 60 Hz (4)	60 Hz	***Instance 1*** *Map 1* *Map 2* 886 1006	0x6A (106) 1 4	89	1034	uint RWES
r.tyP [R.tyP]	*Global* **Ramping Type**	rAtE Rate (81) t i Time (143)	Time	***Instance 1*** *Map 1* *Map 2* - - - - 4414	0x7A (122) 1 26 (38)	- - - -	22038	uint RWE
P.tyP [P.tyP]	*Global* **Profile Type** Set the profile startup to be based on a set point or a process value.	SEPt Set Point (85) Pro Process (75)	Set Point	***Instance 1*** *Map 1* *Map 2* 2534 4354	0x7A (122) 1 8	- - - -	22008	uint RWE
gSE [gSE]	*Global* **Guaranteed Soak Enable** Enables the guaranteed soak deviation function in profiles.	oFF Off (62) on On (63)	Off	***Instance 1*** *Map 1* *Map 2* 2530 4350	0x7A (122) 1 6	- - - -	22006	uint RWE
gSd1 [gSd1]	*Global* **Guaranteed Soak Deviation 1** Set the value of the deviation band that will be used in all profile step types. The process value must enter the deviation band before the step can proceed.	0.0 to 9,999.000°F or units 0.0 to 5,555.000°C	10.0°F or units 6.0°C	***Instance 1*** *Map 1* *Map 2* 2532 4352	0x7A (122) 1 7	- - - -	22007	float RWE
Si.A [Si.a]	*Global* **Source Instance A** Set the digital source for Wait for Event 1 in profile.	5 to 6	5	***Instance 1*** *Map 1* *Map 2* - - - - 4390	0x7A (122) 1 0x1A (26)	- - - -	22060	uint RWES
Si.b [Si.b]	*Global* **Source Instance B** Set the digital source for Wait for Event 2 in profile.	5 to 6	5	***Instance 1*** *Map 1* *Map 2* - - - - 4392	7A (122) 1 0x1B (27)	- - - -	22061	uint RWES
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
Poti [Poti]	*Global* **Power Off Time** If profile is running and power is lost, profile will resume where it left off provided time set has not expired prior to power restoration.	0 to 9999 seconds	0	***Instance 1*** *Map 1* *Map 2* - - - - 4484	7A (122) 1 0x49 (73)	- - - -	22073	uint RWE
C.LEd [C.LEd]	*Global* **Communications LED Action** Turns comms LED on or off for selected comms ports.	Con1 Comm port 1 (1189) oFF Off (62)	Comm port 1	***Instance 1*** *Map 1* *Map 2* 1856 2326	0x6A (103) 1 0x0E (14)	- - - -	3014	uint RWES
Zone [Zone]	*Global* **Zone** Turns Zone LED on or off based on selection.	oFF Off (62) on On (63)	On	***Instance 1*** *Map 1* *Map 2* - - - - 2350	0x6A (103) 1 0x1A (26)	- - - -	3026	uint RWES
Chan [Chan]	*Global* **Channel** Turns Channel LED on or off based on selection.	oFF Off (62) on On (63)	On	***Instance 1*** *Map 1* *Map 2* - - - - 2352	0x6A (103) 1 0x1B (27)	- - - -	3027	uint RWES
dPrS [dPrS]	*Global* **Display Pairs** Defines the number of Display Pairs.	1 to 10	2	***Instance 1*** *Map 1* *Map 2* - - - - 2354	0x6A (103) 1 0x1C (28)	- - - -	3028	uint RWES
d.ti [d.ti]	*Global* **Display Time** Time delay in toggling between display pairs.	0 to 60	0	***Instance 1*** *Map 1* *Map 2* - - - - 2356	0x6A (103) 1 0x1D (29)	- - - -	3029	uint RWES
USr.S [USr.S]	*Global* **User Settings Save** Save all of this controller's settings to the selected set.	SEt1 User Set 1 (101) SEt2 User Set 2 (102) nonE None (61)	None	***Instance 1*** *Map 1* *Map 2* 26 26	0x(101) 1 0xE (14)	118	1014	uint RWE
USr.r [USr.r]	*Global* **User Settings Restore** Replace all of this controller's settings with another set.	FCty Factory (31) nonE None (61) SEt1 User Set 1 (101) SEt2 User Set 2 (102)	None	***Instance 1*** *Map 1* *Map 2* 24 24	0x65 (101) 1 0xD (13)	117	1013	uint RWE
Comm SEt **Communications Menu**								
PCoL [PCoL]	*Communications 1* **Protocol** Set the protocol of this controller to the protocol that this network is using.	Std Standard Bus (1286) rtu Modbus RTU (1057)	Modbus	***Instance 1*** *Map 1* *Map 2* 2492 2972	0x96 (150) 1 7	- - - -	17009	uint RWE
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
Ad.S [Ad.S]	*Communications 1* **Standard Bus Address** Set the network address of this controller. Each device on the network must have a unique address. The Zone Display on the front panel will display this number.	1 to 16	1	***Instance 1*** *Map 1* *Map 2* 2480 2960	0x96 (150) 1 1	- - - -	17001	uint RWE
Ad.M [Ad.M]	*Communications (1)* **Modbus Address** Set the network address of this controller. Each device on the network must have a unique address.	1 to 247	1	***Instance 1*** *Map 1* *Map 2* 2482 2962	0x96 (150) 1 2	- - - -	17007	uint RWE
bAUd [bAUd]	*Communications (1)* **Baud Rate** Set the speed of this controller's communications to match the speed of the Modbus serial network.	9,600 (188) 19,200 (189) 38,400 (190)	9,600	***Instance 1*** *Map 1* *Map 2* 2484 2964	0x96 (150) 1 3	- - - -	17002	uint RWE
PAr [PAr]	*Communications* **Parity** *(1)* Set the parity of this controller to match the parity of the Modbus serial network.	nonE None (61) EuEn Even (191) odd Odd (192)	None	***Instance 1*** *Map 1* *Map 2* 2486 2966	0x96 (150) 1 4	- - - -	17003	uint RWE
C_F [C_F]	*Communications (1)* **Display Units** Select whether this communications channel will display in Celsius or Fahrenheit. **Note:** Applies to Modbus only.	F Fahrenheit (30) C Celsius (15)	F	***Instance 1*** *Map 1* *Map 2* 2490 2970	0x96 (150) 1 6	- - - -	17050	uint RWE
M.hL [M.hL]	*Communications (1)* **Modbus Word Order** Select the word order of the two 16-bit words in the floating-point values.	Loh, Low-High (1331) h,Lo High-Low (1330)	Low-High	***Instance 1*** *Map 1* *Map 2* 2488 2968	0x96 (150) 1 5	- - - -	17043	uint RWE
Map [Map]	*Communications (1)* **Data Map** If set to 1 the control will use PM legacy mapping. If set to 2 the control will use new mapping to accommodate new functions.	1 to 2	If 9th digit of part number is a 1, 2, 3 or D.	- - - -	- - - -	- - - -	17059	- - - -
nV.S [nV.S]	*Communications (1)* **Non-Volatile Save** If set to Yes all values written to the control will be saved in EEPROM.	YES Yes (106) no No (59)	Yes	***Instance 1*** *Map 1* *Map 2* 2494 2974	0x96 (150) 1 8	198	17051	uint RWE
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Display	Parameter Name Description	Range	Default	Modbus Relative Address	CIP Class Instance Attribute hex (dec)	Profibus Index	Parameter ID	Data Type & Read/ Write
rtC (Available with PM4, PM8 and PM9 models only) SEt **Real Time Clock Menu**								
hour [hoUr]	*Real Time Clock* **Hours** Set the current time.	0 to 23	0	***Instance 1*** *Map 1* *Map 2* - - - - 4004	88 (136) 1 3	- - - -	36003	uint RW
rmin [Min]	*Real Time Clock* **Minutes** Set the current time.	0 to 59	0	***Instance 1*** *Map 1* *Map 2* - - - - 4006	88 (136) 1 4	- - - -	36004	uint RW
dowd [doW]	*Real Time Clock* **Day of Week** Set the current day of the week.	Sun Sunday (1565) Mon Monday (1559) tuE Tuesday (1560) WEd Wednesday (1561) thUr Thursday (1562) Fri Friday (1563) SAt Saturday (1564)	Sun	***Instance 1*** *Map 1* *Map 2* - - - - 4002	88 (136) 1 2	- - - -	36002	uint RW
Note: Some values will be rounded off to fit in the four-character display. Full values can be read with other interfaces.								**R: Read** **W: Write** **E: EEPROM** **S: User Set**

***** Available with PM4, PM8 and PM9 models only