



## EZ-ZONE® PM Express PID Controller Models

Company Name:	
Controller Firmware Revision:	14.00
Controller Model Number:	
Application:	

Enter your company name, controller model number and application usage above. Then use this spreadsheet to document application settings for the EZ-ZONE PM Express PID model. This is a master template so all possible parameters are listed. Your model will not include all parameters.

There are three Pages for programming in the product -

**Factory Page** - Used to determine what is displayed at the Home Page, perform Diagnostics, and perform Calibration.

**Setup Page** - Used to configure the controller one time for the application.

**Operation Page** - Used to change parameters for day to day activity such as control mode, monitor power and set points, change alarm set points and limit set points.

Select the appropriate tab in this document for the Page of Menu items to document. Install the included font file in the C:\WINDOWS\Fonts directory to have the seven segment fonts appear correctly.

The column labeled 'Default' records the settings as delivered from the factory. The column labeled 'User Value' is where you may record the settings for your application. Parameters displayed in a menu are based on hardware present in your model and other parameter's settings, therefore you may not see all parameters as you navigate the menu. Cells highlighted in yellow are the only parameters that may be changed.

## EZ-ZONE PM Express PID - Operations Page

Rev. E

Parameter	Parameter Name	Default	User Value	Appears:
<b>AUT</b>	Autotune	<b>no</b>		If Heat or Cool Algorithm is set to PID.
<b>CM</b>	Control Mode	<b>Auto</b>		Always
<b>hPb</b>	Heat Proportional Band	25.0 F or 14.0 C		If Heat Algorithm is set to PID.
<b>cPb</b>	Cool Proportional Band	25.0 F or 14.0 C		If Cool Algorithm is set to PID.
<b>tI</b>	Time Integral	<b>180.0</b>		If Heat or Cool Algorithm is set to PID.
<b>tD</b>	Time Derivative	<b>0.0</b>		If Heat or Cool Algorithm is set to PID.
<b>o.t.b.1</b>	Time Base Output 1	Model dependent		If Function 1 is set to heat or cool and Algorithm is PID.
<b>o.t.b.2</b>	Time Base Output 2	Model dependent		If Function 2 is set to heat or cool and Algorithm is PID.
<b>ALo</b>	Alarm Low Set Point	32.0 F or 0.0 C		If Alarm Type is set to Process or Deviation.
<b>Ah</b>	Alarm High Set Point	300.0 F or 150.0 C		If Alarm Type is set to Process or Deviation.
<b>.CR</b>	Calibration Offset	<b>0.0</b>		Always

## EZ-ZONE PM Express PID - Setup Page

Rev. E

Parameter	Parameter Name	Default	User Value	Appears:
<b>L o C</b>	Lockout Menu	<b>5</b>		Always
<b>S E n</b>	Sensor Type	<b>t c</b>		If 4th digit of model number is C, R, B, or T.
<b>L i n</b>	TC Linearization	<b>J</b>		If Sensor Type is set to Thermocouple
<b>t.C</b>	Thermistor Curve	<b>A</b>		If 4th digit of model number is J, N, or E.
<b>r.r</b>	Resistance Range	<b>40</b>		If 4th digit of model number is J, N, or E.
<b>d E C</b>	Decimal	<b>0</b>		Always
<b>C _ F</b>	Display Units	<b>F</b>		Always
<b>r.L o</b>	Range Low	<b>0.0</b>		Always
<b>r.h i</b>	Range High	<b>9999</b>		Always
<b>F n 1</b>	Function Output 1	<b>h E A t</b>		If 6th digit of part number is C, E, K or F.
<b>o.t y</b>	Output Type	<b>o o L t</b>		If 6th digit of model number is F.
<b>F n 2</b>	Function Output 2	<b>o F F</b>		If 7th digit of model number is C, J, K or H.
<b>h.A 9</b>	Heat Algorithm	<b>P i d</b>		Always
<b>h.S C</b>	On/Off Hysteresis (Heat & Cool)	<b>3</b>		If Heat or Cool Algorithm is On/Off.
<b>C.A 9</b>	Cool Algorithm	<b>o F F</b>		Always
<b>A.t y</b>	Alarm Type	<b>o F F</b>		Always
<b>A.h y</b>	Alarm Hysteresis	<b>1</b>		If Alarm Type is Process or Deviation
<b>A.L 9</b>	Alarm Logic	<b>A.L C</b>		If Alarm Type is Process or Deviation
<b>A.L A</b>	Alarm Latching	<b>n L A t</b>		If Alarm Type is Process or Deviation
<b>A.b L</b>	Alarm Blocking	<b>o F F</b>		If Alarm Type is Process or Deviation
<b>A.S i</b>	Alarm Silencing	<b>o F F</b>		If Alarm Type is Process or Deviation
<b>A.d S P</b>	Alarm Display	<b>o n</b>		If Alarm Type is Process or Deviation
<b>r.P</b>	Ramp Action	<b>o F F</b>		Always
<b>r.r t</b>	Ramp Rate	<b>100</b>		If Ramp Action is set to Startup, Set Point or Both.
<b>S.L o 1</b>	Scale Low Output 1	<b>0.0</b>		If 6th digit of part number is F.
<b>S.h i 1</b>	Scale High Output 1	<b>10.0</b>		If 6th digit of part number is F.
<b>o.h i 1</b>	High Power Scale - Output 1	<b>100.0</b>		If 6th digit of part number is C, E, or K and Function 1 is Heat or Cool.

# EZ-ZONE PM Express PID - Setup Page

Rev. E

o.h. 12	High Power Scale - Output 2	100.0		If 7th digit of part number is H, C, J, or K and Function 1 is Heat or Cool.
PAR 1	Upper or Left Display	AC.P		Always
PAR 2	Lower or Right Display	AC.SP		Always
Ad.5	Zone Address	1		Always

## EZ-ZONE PM Express PID - Factory Page

Rev. E

Parameter	Parameter Name	Default	User Value	Appears:
<b>CUST</b> <b>FCT4</b>	Custom Menu - Factory Page			Always
<b>1</b> <b>CUST</b>	Instance 1 - Custom			Always
<b>PAR</b>	Parameter	<b>ACPU</b>		
<b>2</b> <b>CUST</b>	Instance 2 - Custom			Always
<b>PAR</b>	Parameter	<b>ACSP</b>		
<b>LoC</b> <b>FCT4</b>	Security Setting Menu - Factory Page			If Password Enable is set off.
<b>LoC</b>	Lock	<b>5</b>		Always
<b>d.A9</b> <b>FCT4</b>	Diagnostics Menu - Factory Page			Always
<b>Pn</b>	Part Number	Read Only		Always
<b>rEv</b>	Software Revision	Read Only		Always
<b>SbLd</b>	Software Build	Read Only		Always
<b>Sn</b>	Serial Number	Read Only		Always
<b>dAtE</b>	Date of Manufacture	Read Only		Always
<b>USr.r</b>	User Settings Restore	<b>nonE</b>		Always
<b>Zone</b>	Zone	<b>1</b>		Always
<b>CAL</b> <b>FCT4</b>	Calibration Menu - Factory Page			
<b>P7u</b>	Electrical Measurement	Read Only		Always
<b>EL.i0</b>	Electrical Input Offset	<b>0.000</b>		Always
<b>EL.i5</b>	Electrical Input Slope	<b>1.000</b>		Always
<b>EL.o0</b>	Electrical Output Offset	<b>0.000</b>		If 6th digit of part number is F.
<b>EL.o5</b>	Electrical Output Slope	<b>1.000</b>		If 6th digit of part number is F.
<b>Pn</b>	Part Number	Read Only		Always if revision 13 or newer.
<b>Code</b>	Public Key	<b>4999</b>		Always if revision 13 or newer.