

Watlow's PM PLUS™ Enhances the User Experience With an Interface That Enables Easy Set Up

Watlow's PM PLUS[™], the enhanced EZ-ZONE[®] PM, is now more intuitive and features an enhanced interface for easier programming and readability with a SMOOTH-TOUCH[™] keypad creating an industry leading user experience. The PM PLUS is backwards compatible with legacy EZ-ZONE PM controllers but offers many user upgrades including an intuitive menu flow allowing the controller to be easily configured. It also continues to offer the industry leading Bluetooth[®] connectivity with the EZ-LINK[™] mobile app for remote access capability and full descriptions of parameters and error codes. The PM PLUS improves the user experience by reducing the complexity at the front of the control while eliminating the dependency of cables when configuring the product.

Like the original EZ-ZONE PM, the PM PLUS can be ordered as a PID controller, or an integrated controller with multiple functions combined into one.

Features and Benefits

Intuitive menu flow

- Reduces menu structure to a list of lists allowing the controller to be easily configured
- Offers easy to read characters and color coding making the display visible from many angles

SMOOTH TOUCH keypad

- Eliminates contamination points on the front of the controller
- No mechanical components will wear out
- Creates a better seal on front panel
- Easy to clean

Bluetooth[®] compatible with EZ-LINK[™] mobile app

- Provides full descriptions of parameters and error codes
- Allows remote access capabilities without the use of cables or converters
- Provides the ability to configure the product and save parameter sets



Integrated PID and limit controller

- Reduces wiring time and termination complexity compared with connecting discrete products
- Decreases required panel space
- Lowers installation costs
- Increases user and equipment safety for over/under temperature conditions

High amperage power control output

- Drives 15 ampere resistive loads directly
- Reduces component count
- Decreases cost of ownership

Current monitoring

- Detects heater current flow and provides alarm indication of a failed output device or heater load
- Drives output on open or shorted heater

Serial communication capabilities

- Provides a wide range of protocol choices including Modbus[®] RTU, EtherNet/IP[™], Modbus[®] TCP, PROFIBUS DP, EtherCAT[®], DeviceNet[™], J1939 CAN bus and inter-module bus
- Supports network connectivity to a PC or PLC

Enhanced control options

• Easily handles complex process problems such as cascade, ratio, differential, square-root, motorized valve control without slidewire feedback, wet-bulb/dry-bulb, compressor control and peltier loads

Watlow Ecosystem

- The PM PLUS and ASPYRE AT can now be configured to display not only temperature but other important heater information such as amps, watts, ohms, voltage and other parameters using Watlow's proprietary inter-module bus protocol.
- PM PLUS and EZ-ZONE RM's can also communicate over the inter-module bus and have the ability to to add additional loops of control increase digital inputs and outputs.





Features and Benefits (cont.)

Countdown timer option

- Provides batch process control
- Supports set point change during countdown

10-point linearization curve

Improves sensor accuracy

EZ-LINK[™] mobile application for iPhone[®] and Android[™]

- Expedites controller setup with intuitive navigation
 Simplifies setting parameters with plain text names and descriptions
- Connects quickly and easily via Bluetooth[®] wireless communications

Configuration communications with software

 Includes Watlow standard bus and inter-module bus communications used by COMPOSER[®]

Advanced PID control algorithm

- Offers TRU-TUNE®+ adaptive control to provide tighter control for demanding applications
- Provides auto-tune for fast, efficient start-up

Built-in sensor compensation curves

- Saves cost of buying compensated sensors
- Includes Vaisala RH and altitude (pressure) curves

Remote set point operation

• Supports convenient set point manipulation from a remote device such as a master control or PLC

Profile capability

- Offers pre-programmed process control
- Allows ramp/soak programming with 40 total steps **Retransmit output**
- Supports industry needs for recording

Factory Mutual (FM) approved over/under limit with auxiliary outputs

Increases user and equipment safety for over/under temperature conditions

Memory for saving and restoring parameter settings Decreases service calls and time down

- Agency approvals: UL[®] listed, CSA, CE, RoHS, W.E.E.E., FM, SEMI F47-0200, Class 1, Div. 2 rating on selected models
- Assures prompt product acceptance
- Reduces end product documentation costs **Touch-safe package**
- Increases safety for installer/operator
- Complies with IP2X requirements

Programmable function key

• Enables simple, one-touch operation of user-defined, repetitive activities

Programmable menu system

Reduces setup time and increases operator efficiency

Three-year warranty

Provides product support and reliability

Specifications

Controller

- User-selectable heat/cool, on-off, P, PI, PD, PID or alarm action
- Auto-tune with TRU-TUNE+ adaptive control algorithm
- Control sampling rates: input = 10Hz, outputs = 10Hz

Profile Ramp/Soak

4 profiles, 40 total steps
 Accuracy (typical): ±30 PPM at 77°F (25°C) +30/-100 PPM at -4 to 149°F (-20 to 65°C)

Isolated Serial Communications

- EIA 232/485, Modbus® RTU
- EtherNet/IP™/Modbus[®] TCP
- DeviceNet[™]
- PROFIBUS DP
- SAE J1939 CAN bus
- EtherCAT[®]

Wiring Termination—Touch-Safe Terminals

• Input, power and controller output terminals are touch safe, removable, 12 to 22 AWG

Universal Input

- Thermocouple, grounded or ungrounded sensors greater than $20M\Omega$ input impedance, 3μ A open sensor detection, $2k\Omega$ source resistance max.
- RTD 2- or 3-wire, platinum, 100Ω and $1000\Omega @ 32^{\circ}F (0^{\circ}C)$ calibration to DIN curve (0.00385 $\Omega/\Omega/^{\circ}C$)
- Process, 0-20mA @ 100Ω , or 0-10VDC @ $20k\Omega$, 0-50mV at $20M\Omega$, 0-1000 Ω potentiometer; scalable; inverse scaling

Functional Operating Range

Type J: -346 to 2192°F (-210 to 1200°C) Type K: -454 to 2500°F (-270 to 1371°C) Type T: -454 to 750°F (-270 to 400°C) Type E: -454 to 1832°F (-270 to 1000°C) Type N: -454 to 2372°F (-270 to 1300°C) Type C: 32 to 4200°F (0 to 2315°C) Type D: 32 to 4200°F (0 to 2315°C) Type F: 32 to 2449°F (0 to 1343°C) Type R: -58 to 3214°F (-50 to 1767°C) Type B: 32 to 3300°F (0 to 1816°C) RTD (DIN): -328 to 1472°F (-200 to 800°C) Process: -1999 to 9999 units

Accuracy

- Calibration accuracy and sensor conformity: $\pm 0.1\%$ of span, $\pm 1^{\circ}C$ @ the calibrated ambient temperature and rated line voltage
- Types R, S, B; 0.2%
- Type T below -50°C; 0.2%
- Calibration ambient temperature @ 77°F ±5°F (25°C ±3°C)
- Accuracy span: 1000°F (540°C) min.
- Temperature stability: ±0.1°F/°F (±0.1°C/°C) rise in ambient max.

Thermistor Input

- 0 to $40k\Omega$, 0 to $20k\Omega$, 0 to $10k\Omega$, 0 to $5k\Omega$
- $2.252k\Omega$ and $10k\Omega$ base at $77^{\circ}F$ ($25^{\circ}C$)



Specifications (cont.)

· Linearization curves built-in

Current Transformer Input

- Accepts 0-50mA signal (user-programmable range)
- Displayed operating range and resolution can be scaled and are user-programmable
- Digital Inputs (DC Voltage)
- Max. input: 36V at 3mA
- Logic: min. high state 3V at 0.25mA, max. low state 2V

Digital Inputs (Dry Contact)

- Logic: min. open resistance 10kΩ, max. closed resistance 50Ω
- Max. short circuit: 20mA

2 Digital I/O (ordered with power supply option)

- Update rate: 10Hz
- Input type: user-selectable, dc voltage or dry contact
- Output type: switched dc
- Output voltage: 24V
- Output 5: 24mA max. or drive one 3-pole DIN-A-MITE[®]
- Output 6: 10mA max.
- 6 Digital I/O (ordered with communication option)
- Update rate: 10Hz
- Input type: user-selectable, dc voltage or dry contact
- Output type: user-selectable, switched dc or open collector
- Switched dc output voltage: 12 to 24VDC, depending on current draw
- Switched dc max. supplied current: 40mA at 20VDC and 80MA at 12VDC
- Switched dc max. low state: 2V
- Open collector max. switched voltage 32VDC
- Open collector max. switched current: 1.5A per output; 8A total for all 6 outputs

Output Hardware

- Switched dc: 22 to 32VDC @ 30mA max. per single output and 40mA max. total per paired outputs (1 & 2, 3 & 4)
- Open collector: 30VDC max. @ 100mA max.
- SSR, Form A, 24 to 240VAC, 1A at 50°F (10°C) to 0.5A at 149°F (65°C) resistive load, 264VAC max., opto-isolated, without contact suppression, 120/240VAC @ 20VA pilot duty
- Electromechanical relay, Form A, 24 to 240VAC or 30VDC max., 5A resistive load, 100,000 cycles at rated load, 120/240 @ 125VA or 24VAC @ 25VA pilot duty
- Electromechanical relay, Form C, 24 to 240VAC or 30VDC max., 5A resistive load, 100,000 cycles at rated load, 120/240
 @ 125VA or 24VAC @ 25VA pilot duty
- NO-ARC relay, Form A, 85 to 264VAC, 15A @ 122°F (50°C), resistive load, no VDC, 2,000,000 cycles at rated load
- Universal process output: range selectable; 0 to 10VDC ± 15 mV into a min. 1,000 Ω load with 2.5mV nominal resolution; 0 to 20mA $\pm 30\mu$ A into max. 800Ω load with 5 μ A nominal resolution; temperature stability 100ppm/°C

Operator Interface

- LCD display
- SMOOTH TOUCH keypad
- Programmable function key(s)

Line Voltage/Power

- High voltage option: 85 to 264VAC, 47 to 63Hz
- Low voltage option: 20 to 28VAC, +10/-15%; 50/60Hz, ±5% or 12 to 40VDC
- Max. power consumption: 10VA ($^{1}/_{32}$ and $^{1}/_{16}$ DIN); 14VA

Environment

- Operating temperature: 0 to 149°F (-18 to 65°C)
- Storage temperature: -40 to 185°F (-40 to 85°C)
- Relative humidity: 0 to 90% RH, non-condensing Agency Approvals

• cULus[®] UL[®]/EN/CSA C22.2 No 61010-1 Listed, File E185611

- CSA C22.2 No. 24, File 158031 (1/32 and 1/16 DIN sizes)
- IP 67, IP 66 front seal
- UL[®] Type 4X front seal indoor locations
- cULus[®] ANSI/ISA 12.12.01-2012, CSA-C22.2 No. 213-1987, Class 1, Div. 2, Groups A, B, C and D, Temperature Code T4A, File E184390 (optional)
- FM Class 3545 (limit controls)
- CE, RoHS by design, W.E.E.E.
- EtherNet/IP[™] and DeviceNet[™] ODVA Conformance Tested displays
- EtherCAT® ETG.5003.2060 Conformance Tested

WATLOW

Comparison of Available Features

	PM6 PLUS	PM8/9 PLUS	PM4 PLUS
Display Type	LCD	LCD	LCD
Multi Language (English, German, Spanish)	Yes	Yes	Yes
Keypad Interface Type	SMOOTH-TOUCH™	SMOOTH-TOUCH™	SMOOTH-TOUCH™
Express Model Available	None	None	None
PID Loops	1	2	2
Profile Ramp/Soak	40 total steps	40 total steps	40 total steps
Profile Battery Backup and Real Time Clock	None	Yes	Yes
Number of Digital Inputs/Outputs	0 to 2	0 to 8	0 to 8
Number of Outputs	1 to 2	1 to 4	1 to 4
Integrated Safety Limits	Yes, 1	Yes, 1	Yes, 1
Independent Safety Limit	None	None	None
Maximum Power Output 5A Mechanical Relay	15A NO-ARC	15A NO-ARC	15A NO-ARC
Current Measurement (Accepts 0-50mA Signal From External Current Transformer)	Yes	Yes	Yes
Standard Bus and Inter-module BusCommunications	Yes	Yes	Yes
Bluetooth [®] Technology	Yes	Yes	Yes
Field Bus Communications (Modbus® RTU 232/485, EtherNet/IP™, Modbus® TCP, DeviceNet™, PROFIBUS DP, SAE J1939 CAN bus)	Yes	Yes	Yes
EtherCAT [®] Communication Protocol	No	Yes, PM9	No
10-Point Calibration Offset	Yes	Yes	Yes
Ratio, Differential and Square-Root	Yes	Yes	Yes
Sensor Compensation Curves-Altitude (Pressure) and Vaisala RH	Yes	Yes	Yes
Motorized Valve Control (Without Feedback)	Yes	Yes	Yes
Wet Bulb/Dry Bulb	Yes	Yes	Yes
Cascade	None	Yes	Yes
Countdown Timer	Yes	Yes	Yes

Dimensional Drawings





PM6 - Recommended Panel Spacing





Dimensional Drawings (cont.)

PM8





PM9

PM9 - Recommended Panel Spacing



PM4





PM4 - Recommended Panel Spacing





Typical Block Diagram



Compatible Accessories

More information is available on these products at www.watlow.com



Watlow's new EZ-LINK app allows users to easily setup, monitor and adjust Watlow EZ-ZONE PM and PM PLUS controllers via Bluetooth[®]. The app is available freeof-charge from the app store for phones and tablets, and provides access to the controller's parameters with fully spelled out names in plain text with help topics that explain each parameter and option. EZ-LINK mobile application connects quickly and easily via Bluetooth[®] wireless communications. Download the

EZ-Link App for iPhone[®].

at ► Google Play for Android[™] or C AppStore



SpecView is designed for industrial users with features such as data logging, trending and support for bar code readers and touch screens. Errors are reduced, for any process, by creating application-specific screens. The software provides a

historical replay option, easy-to-use recipe features and remote access options, including LAN, Internet and modem.



COMPOSER with INTUITION[®] is Watlow's easy-to-use software for configuring and customizing controllers. Use it to optimize Watlow's F4T and EZ-ZONE PM, PM PLUS and RM controllers for specific applications. Task-specific views simplify all

aspects of commissioning new controllers including managing the inputs and outputs from pluggable flex modules, setting up functions such as control loops and alarms and creating and editing profiles. COMPOSER software is included on the "Watlow Support Tools" DVD and available for download at www.watlow.com.

Silver Series EM touch screen operator interface terminals provide a customizable user interface, email event notifications and log and graph data for Watlow controllers and other devices. A Silver Series EM operator interface terminal paired with Watlow



controllers is the perfect solution for your industrial process or machine control application.



PM PLUS Integrated PID	Controller Configura	tion Co	de		WATLOW				
1 2 3 4 5 Package Primary Supply Size Functions Digital I,	Hardware Comm.	(9) Auxiliar Control Function	Hardware		13 (4) Custom Options				
		ы М –	6 digital I/O and	Bluetooth® (i	not available on ¹ /16 DIN models)*				
$6 = \frac{1}{16} \text{ DIN}$	ige Size		6 digital I/O and	EIA 485 Mod	lbus [®] RTU and Bluetooth [®] (not				
$8 = \frac{1}{8} \text{DIN (vertical)}$			available on 1/16 l						
9 = $\frac{1}{8}$ DIN (horizontal) 4 = $\frac{1}{4}$ DIN			ote: Bluetooth® no		all countries, contact factory.				
	Functions	9 A =	None	Auxiliary C	ontrol Functions				
C = PID controller with universal inp	out			with universa	al input (not valid on 1/16 DIN				
battery back-up with real time of	 B = PID controller with universal input and profiling ramp/soak and battery back-up with real time clock E = PID controller with thermistor input and profiling ramp/soak 				J = 2nd PID channel with thermistor input (not valid on ¹ / ₁₆ DIN models)				
and battery back-up with real ti	me clock	R =	Auxiliary 2nd inp	ut (universal	input)				
R = PID controller with universal inp		P =	Auxiliary 2nd inp	ut (thermisto	or input)				
T = PID controller with universal inpJ = PID controller with thermistor in	- T=	T = Current transformer input (not valid Output 3 and 4) selections = FA, FC, FJ and FK)							
S = Custom firmware					L = Integrated limit controller with universal input (only valid Output 3 and 4 selections = CJ, EJ and AJ)				
	al Inputs/Outputs (I/O)	M =	Integrated limit c Output 3 and 4 se		h thermistor input (only valid J, EJ and AJ)				
1 = 100 to 240VAC		No	e: If communication	on options F,	G, H, J, K or 2 thru 7 is ordered in				
2 = 100 to 240VAC plus 2 digital I/O 3 = 20 to 28VAC or 12 to 40VDC	points	Âll	vious digit, then O Models: Auxiliary i	nput support	ts remote set point, backup sensor				
4 = 20 to 28VAC or 12 to 40VDC, plu	ıs 2 digital I/O points		o, differential and						
	Hardware Options	10 (1) Or Outp		4 Hardware Options Output 4				
Output 1 CA = Switched dc/open collector	Output 2	AA	= None	ut 5	None				
CH = Switched dc/open collector	NO-ARC 15A power control		= None		Mechanical relay 5A, Form A				
CC = Switched dc/open collector	Switched dc		= None		SSR Form A, 0.5A				
CJ = Switched dc/open collector	Mechanical relay 5A, Form A		Switched dc/op						
CK = Switched dc/open collector EA = Mechanical relay 5A, Form C	SSR Form A, 0.5A		= Switched dc/op						
EH = Mechanical relay 5A, Form C	NO-ARC 15A power control		= Switched dc/op						
EC = Mechanical relay 5A, Form C	Switched dc		 Switched dc/op Switched dc/op 						
EJ = Mechanical relay 5A, Form C	Mechanical relay 5A, Form A		 Mechanical relation 						
EK = Mechanical relay 5A, Form C	SSR Form A, 0.5A		 Mechanical relation 						
FA = Universal process	None		 Mechanical relation 						
FC = Universal process FJ = Universal process	Switched dc Mechanical relay 5A, Form A		 Mechanical relation 						
FK = Universal process	SSR Form A, 0.5A		 Mechanical relation 						
AK = None	SSR Form A, 0.5A	FA	= Universal proce	2SS	None				
KH = SSR Form A, 0.5A	NO-ARC 15A power control	FC	 Universal proce 	SS	Switched dc				
KK = SSR Form A, 0.5A	SSR Form A, 0.5A	FJ	 Universal proce 	SS	Mechanical relay 5A, Form A				
8 Communication Options o	r Additional Digital Outputs		Universal proce		SSR Form A, 0.5A				
Standard bus always included			= SSR Form A, 0.5		NO-ARC 15A power control				
A = None			= SSR Form A, 0.5		SSR Form A, 0.5A				
B = Bluetooth®*					options F, G, H, J, K or 2 thru 7 is				
E = EIA 485 Modbus® RTU and Blue					tion AA must be ordered here.				
F = Modbus® RTU 232/485 and BlueG = EtherNet/IP™/ Modbus® TCP and		1/16	DIN Models: Outp	ut options C	H, EH and KH are not valid.				
H = DeviceNet [™] and Bluetooth [®] *	שועפונטטווו	12	Model S	election (In	puts 1 and 2 are isolated)				
J = PROFIBUS DP and Bluetooth®*			PM PLUS PID Vers						
K = SAE J1939 CAN bus and Blueton L = EtherCAT® and Bluetooth® (1/8 D		V =	cascade, ratio, de	fferential, squ	includes compressor control, uare root, motorized valve control				
1 = EIA 485 Modbus® RTU			without feedback						
2 = EIA 232/485 Modbus® RTU 3 = EtherNet/IP™/Modbus® TCP					om Options				
5 = DeviceNet™			Watlow logo fa						
6 = PROFIBUS DP			= Face plate no l						
7 = SAE J1939 CAN bus		WR = Face plate no logo/name, 7 button (1/4 DIN only)							
8 = EtherCAT [®] ($^{1}/_{8}$ DIN (Horizontal)		WS = Watlow logo face plate, 7 button (1/4 DIN only)							
C = 6 digital I/O (not available on ¹ /		_	= Conformal coa	-					
D = 6 digital I/O and EIA 485 Modbu models)	us® RTU (not available on 1/16 DIN	12	= Class 1, Div. 2 (types E, H or J)		e with mechanical relay Output				
			,						



PM PLUS PID Model Configuration Code										WATLOW	
12	3	4	5	6 7		8	9 10 11	12	13 14	SELECT.	
	Deckerre	Duimour	Power	Output 1 and 2 Hardware		6	Future	Madal	Custom		
	Package Size	Primary Functions	Supply Digital I/(Comm. Options	Future Options	Model Selection	Custom Options		
РМ							AAA				
]	
3			Package	e Size			8			ptions or Additional Digital Outputs	
$6 = \frac{1}{1}$							Standard bus always included				
	DIN (Verti						A = None				
	9 = ¹ / ₈ DIN (Horizontal)			B = Bluetooth®*							
$4 = \frac{1}{4}$	DIN						E = EIA 485 Modbus [®] RTU and Bluetooth [®] *				
			• -							and Bluetooth®*	
4			rimary Fu							^o TCP and Bluetooth [®] *	
		r with unive				/ 1		DeviceNet [™]			
				and profiling ra				PROFIBUS D			
				and countdown	tim	her				d Bluetooth®*	
		r with therr				. /		EtherCAT [®] a		5th°*	
N = PII) controlle	r with therr	mistor inpi	ut and profiling r	am	р/ѕоак	1 = EIA 485 Modbus [®] RTU				
5	Ρον	ver Supply	, Digital	nputs/Outputs	; (I/	0)	2 = EIA 232/485 Modbus® RTU				
1 = 10	0 to 240VA	١C					3 = EtherNet/IP™/Modbus® TCP				
2 = 10	0 to 240VA	C plus 2 dig	gital I/O po	oints			5 = DeviceNet™				
3 = 20	3 = 20 to 28VAC or 12 to 40VDC			6 = PROFIBUS DP							
4 = 20	4 = 20 to 28VAC or 12 to 40VDC, plus 2 digital I/O points			7 = SAE J1939 CAN bus 8 = EtherCAT [®]							
67		Output 1	and 2 H	ardware Optior	าร				(not availa	ble on 1/. DIN models)	
	Output 1 and 2 Hardware Options Output 1 Output 2				$C = 6 \text{ digital I/O (not available on } \frac{1}{16} \text{ DIN models})$						
CA = S		lc/open coll	lector N	lone			D = 6 digital I/O and EIA 485 Modbus® RTU (not available on ¹ / ₁₆ DIN models)				
		lc/open coll		IO-ARC 15A pow	ver o	ontrol	M = 6 digital I/O and Bluetooth [®] (not available on $1/16$ DIN mode				
		lc/open coll		witched dc			N = 6 digital I/O and EIA 485 Modbus [®] RTU and Bluetooth [®] (not				
		lc/open coll		Aechanical relay	5A,	Form A	available on ¹ / ₁₆ DIN models)*				
		lc/open coll		SR Form A, 0.5A	- 1	-	*Note: Bluetooth [®] not available in all countries, contact factory.				
		I relay 5A, F		lone			9 10				
		l relay 5A, F		IO-ARC 15A pow	ver c	control		= Future Op	tions	Future Options	
		I relay 5A, F		witched dc				= Future Op	nions		
		I relay 5A, F		Aechanical relay	5A,	Form A	12			ion (Inputs 1 and 2 are isolated)	
		l relay 5A, F		SR Form A, 0.5A			P = F	PM PLUS PID	Version		
	Jniversal p			lone			V = PM PLUS Enhanced firmware				
	, Jniversal p		S	witched dc			X = 1	Not an order	option. A	ppears when Express menu selected.	
	, Jniversal p		N	Aechanical relay	5A,	Form A	(13) (14)			Custom Options	
	Jniversal p			SR Form A, 0.5A			WP = Watlow logo face plate				
AK = Ⅰ				SR Form A, 0.5A			WN = Face plate no logo/no name				
KH = 9	SR Form A	A, 0.5A		IO-ARC 15A pow		control	WR = Face plate no logo/name, 7 button (1/4 DIN only)				
	SR Form A			SR Form A, 0.5A			WS = Watlow logo face plate, 7 button (1/4 DIN only)				
								Conforma			
							12 =			vailable with mechanical relay Output	

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