

# 1 - MOUNT TO PANEL

- 1. Make the panel cutout using the measurements in figure 1.
- 2. Remove the green terminal connectors and the mounting collar assembly.
- 3. Insert the controller into the panel cutout from the front.
- Orient the collar base so the flat side 4. faces front and the screw openings are on the sides (see figure 2), then slide the base over the back of the controller.
- 5. Slide the mounting bracket over the controller with the screws aligned to the collar base. Push the bracket gently but firmly until the hooks snap into the slots in the case.
- 6. Tighten the two #6-19 x 1.5 in. screws with a Phillips screwdriver until the device is flush to the panel (3 to 4 in-lbs torque).
- 7. Reinstall the terminal connectors to their original locations. (Or first connect field wiring as indicated in this guide and then reinstall the connectors).



Connect your sensor as indicated in the diagram for your sensor input. Figure 4 is an example illustrating the connection shown for a

Thermocouple.





Figure 3

# **5 - CONNECT POWER** CF

Connect the power source for your configuration code: PM6 [1,2,3,4] \_ - \_ \_ \_ \_ \_ 1 or 2:120-240 V (ac) 3 or 4: 24 V (ac or dc) CAUTION Do not connect high voltage to a controller that

requires low voltage.

**3 - WIRE OUTPUT 1** Refer to the wiring diagram for your configuration code and connect to the slots indicated. PM6 C - H : Switched DC or Open Collector Internal Circuit **Open Collector** Common PM6\_\_E\_-\_\_H\_:5A Form C Relay Figure 5: Switched DC Output Wiring 5A @240 V(ac) or 30 V (dc) Internal Circuit Normally 1000 PM6 F - H : Universal Process Normall 0 to 20 mA: 800 Ω max. load 0 to 10V: 1kΩ min. load Internal Circ Current Load Voltage Load Internal Circuit

### PM6\_\_\_J-\_H\_\_: 5A Form A Relay Normally Open 9**[2**] Load -K2

Internal Circuit Common

C - H : Switched DC PM6



PM6\_ \_ \_ H - \_ \_ \_H\_ \_: No-Arc Relay Normally Open Load g

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# 2 - CONNECT THE SENSOR INPUT





Process Voltage: 0 to 10V@ 20kΩ Process Current: 0 to 20 mA @ 1000

Platinum 100Ω 20Ω max. loop lead resistance



CE Declaration of Conformity - Series EZ-ZONE® PM WATLOW Electric Manufacturing Company 1948 Hundright Mill Wong Misser 108.
Declares the following product meets the essential requirements of the following European Union Directives by using the relevant tated of the product meets the relevant environment of the following European Union Directives by using
Designation: Series EZ-ZONE® PM (Panel Mount)
Model Numbers: PM (3, 6, 8, 9 or 4)(Any Letter or number)(1, 2, 3 or 4)(A, C, E, F or K) (A, C, H, J or K) – (Any letter or number)(Any letter or number)(A, C, E, F or K)(A, C,
H, J or K) (Any three letters or numbers) Classification: Temperature control, Installation Category II, Pollution degree 2, IP65
Rated Voltage and Frequency:     100 io 240 V ~ (ac 5060 Hz) or 15 to 36 V=adc/24 V~ac 5060 Hz       Rated Power Consumption:     10 VA maximum PMS, PMS (Models.       14 VA maximum PMS, PMS (Models
2014/30/EU Electromagnetic Compatibility Directive EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use – EMC requirements (Industrial Immunity, Class B Emissions).
IEC 61000-4-3:2008 Electrostatic discharge immunity IEC 61000-4-3:2007 +A1/2008, A2/2010 1.4-2.7 GHz
IEC 61000-4-4:2012 Electrical fast-transient / burst immunity IEC 61000-4-5:2014 +A1/2017 Surge immunity
IEC 51000-4-62013 + Immunity to conducted disturbances induced by fadio-rrequency fields Corrigendum 2015
EC 51000-4-11:2004 + A1/2017 Voltage dips, short interruptions and voltage variations immunity EN 61000-3-2:2014 Limits for harmonic current emissions for equipment ≤ 16 Amps per phase
SEMI F47-0812 Vottage nuctuations and nicker's to Amps per phase SEMI F47-0812 Specification for semiconductor sag immunity Figure R1-1
<sup>1</sup> For mechanical relay loads, cycle time may need to be extended up to 160 seconds to meet flicker requirements depending on load switched and source impedance.
2014/35/EU Low-Voltage Directive EN 61010-1:2010 <sup>2</sup> Safety Requirements of electrical equipment for measurement, control and
laboratory use. Part 1: General requirements <sup>2</sup> Compliance with 3rd Edition requirements with use of external surge suppressor installed on 230 Vac- power line units.
Recommend minimum 1000 V peak to maximum 2000 V peak, 70 joules or better part be used. Compliant with 2011/65/EU RoHS2 Directive Per 2012/19/EU W.E.E.E Directive
A. Please Recycle Properly. Models PM(4, 8 or 9)E contain a type BR1225 coin cell battery which shall be recycled at end of life per 2006/68/EC Battery Directive as amended by 2013/58/EU Directive. Models PM6XXX – (8, E, F, G, H, J, K/XXXXX where (X = any letter or number allowed above)
Include Bluetooth <sup>®</sup> wireless technology and have been reviewed to the following additional requirements. 2014/53/EU Radio Equipment Directive (RED)
EN 61010-1:2010 Safety Requirements of electrical equipment for measurement, control and laboratory use.
Pair 1: Series a requirements of article 3:1(a) or Directive 2014/53/EU Covering the essential arequirements of article 3:1(a) or Directive 2014/53/EU Electrical equipment for measurement, control and laboratory use – EMC requirements (Industrial Immunity, Class A Emissions).
CAUTION: This equipament not intended for use in residential environments and may not provide adequate protection to radia reception in such environments. EN 301489-1V2.1.1 ElectroMagnetic Compatibility (EMC) standard for radio equipament and services. Fant 1: Common technical equivalence in a such as a
3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU EN 301489-17 V3.1.1 ElectroNagnetic Compatibility (ENC)standard for radio equipment and services, Part 17: Specific conditions for Encodeahod Data Transmission Systems, Harmonized Standard covering
the essential requirements of article 3.1(b) of Directive 2014/55/EU EN 300 328 V1.01 Electromagnetic compatibility and Acids opectrum Mathems (EMA), Whethead transmission systems: Data transmission equipment operating in the 2.4 GHz (SM band ratio using wide band RATTE Directive Science 2014 Consequence accessing equipmented of article 3.2 of the RATTE Directive
NVLAP Test Report 10928545H-A EN 300 328 V2.1.1 Additional Receiver blocking test for to cover requirements for 2014/53/EU. NVLAP Test Report 1164946H-E
Contains Module FCC ID: VPYLBZY Part 15C 2. Contains Module IC: 772C-LBZY RSS 210
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Doug Kuchta Winona, Minnesota, USA Name of Authorized Representative Place of Issue

# 7 - KEYPAD OVERVIEW



# 8 - INTRODUCTION TO KEYPAD & MENU BASICS



### Menu and Keypad Basics

NOTE: You must read and understand the role of each key on your controller keypad before proceeding. See Panel 7 - Keyboard Overview.

These instructions are not inclusive. This Quick Start Guide

(QSG) is meant to be a quick reference guide. It will show you how to navigate to frequently used areas of your controller. As an example, settings process outputs are not documented in this QSG. Refer to the User Manual for more detailed instructions. NOTE: These diagrams might vary depending on the Controller programming.

### Introduction to the Set Up & Operating Menus

Upon power up, the display will default to the home page in the Operations Menu. The upper red row displays the process value (PV). The lower green row displays the set point (SP).



### Operations Menu

To enter the Operations Menu, press I to return to Home Page. Press the green advance key I to scroll through the various prompts found in the Operations Menu. Press the Infinity key I at any point within the Operations Menu to return to the Home Page. Use Arrow Keys I to increment or decrement settings or change selection.

To enter the Setup Menu press it to return to Home Page. Press both Arrow Keys for 6 seconds. Press green Advance Key (a) to scroll through to the prompt of choice. Use Arrow Keys To increment or decrement settings or change selection. At any point within the Setup Menu, push the Infinity Key to return to the Home Page.





