PM6 LEGACY™ EXPRESS
PID CONTROLLER

for configurations:
PM6 C - - - - H - - - - - -AAAH H-
NOTE: Express Only

For assistance contact Watlow: www.watlow.com
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1 - MOUNT TO PANEL

NOTE: Mounting requires access to the back of the 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.
4. Orient the collar base so the flat side 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 collar base. Push the bracket gently but firmly until the hooks snap into the slots in the case.
7. Reinstall the terminal connectors to their original locations. (Or first connect field wiring as indicated in this guide and then reinstall the connectors).

2 - CONNECT THE SENSOR INPUT

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

Thermocouple

Process Voltage: 0 to 10 V@28 VDC
Process Current: 0 to 20 mA @ 1000
Platinum 1000
200 max. loop load resistance

2 - WIRE OUTPUT 1
For configurations:
PM6_ _ _ _ _ H - _ _ _ _ H _ : Switched DC or Open Collector
PM6_ _ _ _ _ H - _ _ _ _ H _ : Switched DC
PM6_ _ _ _ _ J - _ _ _ _ H _ : 5A Form A Relay
PM6_ _ _ _ _ C - _ _ _ _ H _ : Switched DC
PM6_ _ _ _ _ = _ _ _ _ H _ : Universal Process
PM6_ _ _ _ _ F - _ _ _ _ H - _ _ _ _ H _ : 5A Form C Relay
PM6_ _ _ _ _ E - _ _ _ _ H - _ _ _ _ H _ : 5A Form C Relay
PM6_ _ _ _ _ F - _ _ _ _ H - _ _ _ _ H _ : Universal Process
PM6_ _ _ _ _ H - _ _ _ _ H _ : No-Arc Relay
PM6_ _ _ _ _ H - _ _ _ _ H _ : No-Arc Relay

3 - WIRE OUTPUT 1
Refer to the wiring diagram for your configuration code and connect to the sharp indicated.

4 - WIRE OUTPUT 2

5 - CONNECT POWER

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.

6 - CE DECLARATION OF CONFORMITY

Do not connect high voltage to a controller that requires low voltage.
10 - SET UP OUTPUTS FOR HEAT, COOL AND ALARM

11 - SET UP AN ALARM

12 - SET ALARM SET POINTS

13 - LOOP CONTROL MODE/LOOP SET POINT

14 - AUTOTUNE THE CONTROL LOOP

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