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.
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 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).

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 or Current
Voltage: 0 to 50 mV or 0 to 10V@ 20kΩ
Current: 0 to 20 mA @ 100Ω

Platinum 1000 or 10000 Ω RTD
200 max. round trip lead resistance

Wires

S1
R1

S1
R1

S3
S1
S1
R1

S1
R1

S1
R1

S2
S1
S1
R1

S1
R1

S1
R1

Figure 4: Thermocouple Wiring Example

3 - WIRE OUTPUT 1

Refer to the wiring diagram for your configuration code and connect to the slots indicated.

PM6_ _ C _ - _ _ _ _ _ _ : Switched DC or Open Collector

Internal Circuit

Common

Normally Open

Load

Switched DC

Power Supply

Open Collector

Load

Figure 5: Switched DC Output Wiring

4 - WIRE OUTPUT 2

PM6_ _ J - _ _ _ _ _ _ : 5A Form A Relay

PM6_ _ C - _ _ _ _ _ _ : Switched DC

PM6_ _ H - _ _ _ _ _ _ : No-Arc Relay

Figure 3

Figure 6

Figure 7

Figure 8

Figure 9
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.

8 - SET UP ALARM TYPES / SIDES

Alarm Types
process: alarm set points are set directly
deviation: alarm set points are relative to the control loop's set point.
Off: no alarm occurs

Alarm Sides
high: alarm when process is above high alarm set point
low: alarm when process is below low alarm set point.
both: high and low alarms are active.
Alarm sides allow you to set a high alarm, a low alarm, or both.

Alarm Type
1. From Home, tap the forward arrow to go to Operations.
2. Scroll to and select Alarm.
3. Scroll to and select Alarm 1, 2, 3, or 4.
4. Scroll to and select Type.
5. Scroll to and select the type: process, deviation, or off.

Alarm Sides
6. Use the back arrow to return to Alarm 1, 2, 3, or 4.
7. Scroll to and select the desired sides option: high, low, or both.
8. Scroll to and select the Alarm High Set Point or Alarm Low Set Point, as necessary for your sides selection.

9 - CONTROL LOOP MODE, SET POINT, AUTOTUNE

Control Mode
1. From Home, tap the forward arrow to go to Operations.
2. Scroll to and select Setup.
3. Scroll to and select Control Loop.
4. Scroll to and select Control Mode.
5. Select Off, Auto, or Manual.
   Auto: loop adjusts output so process matches set point.
   Manual: user sets control loop output in percent power.
   Off: no control loop output

Control Loop Set Point
1. Press the Home button to return to the Home screen.
2. Use the numeric slider or the +/- keys to choose the set point.

Autotune
1. From Setup, scroll to and select Control Loop.
2. Scroll to and select Autotune.
3. Select Yes.