CONTROL CONSOLES



The single series offers a variety of control, input and heater options. Single series are fitted with Watlow Series EZ Zone PM controls. The heater output and control circuit are fused to protect the internal components from damage. The heater output is pre-wired making installation quick and easy. Control Consoles are also available are a two and four zone models. Custom options are

Features

- Small foot print
- Pre-wired output
- AMP Mate-n-Lok 2 pin, Mini twist lock (NEMA ML-3) output connection
- Watlow Series EZ Zone PM Controllers
- On/Off Rocker Switch

Specifications

- **Controller**
  - Watlow Series EZ Zone PM
- **Dimensions**
  - 119 mm H x 76 mm W x 191 mm D
  - (4.7 in H x 3.0 in W x 7.5 in D)
- **Output Power Switching Options**
  - **Zero Cross**
    - Utilizing a solid state relay
    - Used for resistive heater loads
    - 10 amp maximum fused output, 8 amp maximum load
    - Output is powered through the line cord
  - **Phase Angle Fire**
    - Utilizing a phase angle fire solid state relay
    - Used for Tungsten / Quartz
    - 15 amp maximum fused output, 10 amp maximum load
    - Output is powered through the line cord

Power Requirements

- 120 Volt AC, +10 %, -15%
- 208/240 Volt AC, +10 %, -15%
- 24 Volt DC, +/-10%

Sensor Input

- Thermocouple
- 2 Wire RTD
- 4-20 mA
- 0-10 VDC

Output Configuration

- Fused at 10 (std) or 15 amps (heavy duty)
- AMP Mate-n-Lok connector
- Mini twist and lock connector (NEMA ML-3)
- 120 volt female receptacle, (NEMA 5-15R)
- M12 4 pin connector (DC volts only)

Communications Options

- Bluetooth
- RS-232/485 Modbus RTU
- Ethernet/IP , Modbus TCP
- Watlow Standard Bus

Operating Environment

- 0-90 percent RH, non-condensing

37809 S Groesbeck Hwy ■ Clinton Twp, MI 48026 ■ (586) 415-9260 ■ (800) 321-8007 ■ FAX (586) 415-9265 ■ www.hiwattinc.com

CONTROL CONSOLES

Ordering Information

SNGL - ____ ____ ____ ____ - ____ ____ ____

Control
A= PM Plus w/Timer
B= PM Plus w/485 Com
C= PM Plus w/Std Bus Com
D= PM Plus w/Ethernet IP
E= PM Plus w/Std Bus Com and ramp and soak
F= PM Plus w/485 Com and ramp and soak
H= PM Plus w/Ethernet IP and ramp and soak
1=Phase Angle Fire , PM Plus
2=Phase Angle Fire, PM Plus w/Timer
3=Phase Angle Fire, PM Plus and ramp and soak
5=Gefran 450 Temp Control
6=PM Plus /w Integrated Limit and ramp and soak
7=PM plus /w Integrated Limit
8=PM Plus
9=PM Plus w/ramp and soak

Input
J= Type J T/C
K=Type K T/C
T=Type T T/C
R=100 Ohm 2 wire RTD
F=4-20mA
U=Custom
Z=Other

Display
RG= Red/Green

Output Connector
1=AMP Mate-n-Lok
2=Mini Twist Lock (NEMA ML3)
3=Mini Twist Lock (NEMA ML1)
4=NEMA 5-15
5=M12 4 Pin (DC volt only)

Line Voltage
1=120 Volt AC (8 Amp)
2=208/240 Volt AC (8 Amp)
3=120 Volt AC Heavy Duty(15 Amp)
4=240 Volt AC Heavy Duty(15 Amp)
A=24 Volt DC (15 Amp)

Options
00=None
01=Digital I/O
02=Alarm Output
03+=Custom Options

37809 S Groesbeck Hwy ■ Clinton Twp, MI 48026 ■ (586) 415-9260 ■ (800) 321-8007 ■ FAX (586) 415-9265 ■ www.hiwattinc.com