CONTROL CONSOLES



The Dual series is the first package to offer multiple zones of control in one package. The Dual series are fitted with Watlow Series EZ Zone PM controls. Each zone utilizes a solid state relay for longer heater life and a lower cost than other power switching devices. The heater output connectors can be ordered as either an Amp Mate-n-Lok or twist and lock connector. Control Consoles are also available are a single and four zone models. Custom options are also available.

Features

- Small foot print
- Pre-wired output
- AMP Mate-n-Lok 2 pin or Mini twist lock (NEMA ML-3) output connection
- Miniature thermocouple connector
- Watlow Series EZ Zone PM Controls
- On/Off Rocker Switch
- Optional High Limit Control

Special Options

- Remote Set Point
- Digital I/O (DC only)
- Alarm Outputs

Specifications

- **Controller**
  - Watlow Series EZ Zone PM
- **Dimensions**
  - 114 mm H x 152 mm W x 191 mm D (4.5 in H x 6.0 in W x 7.5 in D)

Output Power Switching

- **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 15 amps
- 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

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CONTROL CONSOLES

Ordering Information

DUAL - _____ _____ _____ _____ - _____ _____ _____

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
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
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

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