

1/16 DIN Temperature Controllers

Space-Saving Systems

6100 Series



Model 6103 "Space Saver" Panel Controller

- ✓ Thermocouple and RTD Models
- ✓ Time-Proportional Control
- ✓ 10 A Capacity
- ✓ 1/4" Terminal Lugs

Model 6102 Socket Mount Controller

- ✓ Thermocouple and RTD Models
- ✓ Time-Proportional Control
- ✓ 10 A Capacity
- ✓ 11-Pin Connector

Model 6132

- ✓ On/Off Control

Specifications

Electrical

Supply Voltage: 115 Vac (-15%, 20%), 50/60 Hz (optional) 230 Vac

Power Consumption: 2 VA

Output: 10 A relay, SPST with power internally wired to contacts; 5 A relay, SPDT for 6132H

Control

Calibration Accuracy: ±2% of scale span or 4°C, whichever is greater (from 10 to 90% of scale span)

Linearity-Resolution: Linearity 6%, resolution 1% maximum of scale span (dependent on sensor/range)

Control Accuracy: ±0.4% FS at an ambient of 22°C (72°F); ±2°C (3.6°F), at rated line voltage, after 30 minutes setting time; cycle time: 25 s, approximately

Control Modes

Time Proportional: Proportional with accelerated response to temperature variations; 3.5% band

On/Off: Model 6132H only; 4°C (7°F) differential

6102-J-0-300F 1/16 DIN.



Mounting bracket (included), actual size.



Input

Thermocouple: J, K, S

External resistance: Maximum 100 Ω

Cold-Junction Compensation: Automatic
Common Mode: Negligible effect up to 270V 50/60 Hz

Series Mode: Negligible effect up to scale spread mV equivalent at 50/60 Hz

Sensor Break Protection: Automatic upscale

RTD Sensor:

100 Ω platinum α=0.00385

General

Indication: A high-brightness LED shows heat is on

Operating Temperature: 0 to 50°C (32 to 122°F)

Suppression: Filtering is provided for line and sensor input interference

Dimensions: 48 H x 48 W x 98 mm D (1.89 x 1.89 x 3.86")

Construction: Flame-retardant polycarbonate and ABS; bezel and knob coated with Nextel®

Connections: 1/4" standard terminal lugs or 11-pin connector

Weight: 200 g (7 oz)



OMEGACARE™ extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARE™ covers parts, labor and equivalent loaners.

To Order

Proportional Control		On/Off Control		Input Type	Range
Socket Mount	Quick Disconnect	Socket Mount			
6102J-0-300F	6103J-0-300F	6132H-J-0-300F	J	0 to 300°F	
6102J-0-500F	6103J-0-500F	6132H-J-0-500F			
6102J-0-1000F	6103J-0-1000F	6132H-J-0-1000F			
6102J-0-300C	6103J-0-300C	6132H-J-0-300C			
6102K-0-500F	6103K-0-500F	6132H-K-0-500F	K	0 to 500°F	
6102K-0-1000F	6103K-0-1000F	6132H-K-0-1000F			
6102K-0-1500F	6103K-0-1500F	6132H-K-0-1500F			
6102K-0-1200C	6103K-0-1200C	6132H-K-0-1200C			
6102S-0-1600C	6103S-0-1600C	6132H-S-0-1600C	S	0 to 1600°C	
6102RTD-0-600C	6103RTD-0-600C	6132H-RTD-0-600C	RTD	0 to 600°C	

Comes complete with operator's manual and mounting bracket.

To order, specify model number and range (from chart above.)

To order 230V, add "-230V" to model number, no additional cost.

Ordering Examples: 6132H-J-0-300C-230V, on/off controller with socket mounting and 230 Vac power. OCW-2, extends standard 3-year warranty to a total of 5 years. 6102J-0-1000F proportional controller with socket mounting.