

# 1/16 DIN Temperature Controllers

## Space-Saving Systems

6100 Series  
Starts at  
**\$145**



### 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% max 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

#### Input

**Thermocouple:** J, K, S

**External resistance:** Max 100 Ω

6102-J-0-300F 1/16 DIN, \$145.



Mounting bracket (included), actual size.

**For Complete Product Information Visit**  
[omega.com/6100\\_controller](http://omega.com/6100_controller)

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

**MOST POPULAR MODELS HIGHLIGHTED!**

### To Order (Specify Model Number)

Proportional Control		On/Off Control		Input Type	Range
Socket Mount \$145	Quick Disconnect \$149	Socket Mount \$145			
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	K	0 to 1000°F	
6102K-0-500F	6103K-0-500F	6132H-K-0-500F			
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	S	0 to 1200°C	
6102S-0-1600C	6103S-0-1600C	6132H-S-0-1600C			
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 charge.

**Ordering Examples:** 6132H-J-0-300C-230V, on/off controller with socket mounting and 230 Vac power, \$145. OCW-2, extends standard 3-year warranty to a total of 5 years (\$26), \$145 + 26 = \$171. 6102J-0-1000F proportional controller with socket mounting, \$145.



#### UNITED STATES

[www.omega.com](http://www.omega.com)  
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1-800-TC-OMEGA

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0800-8266342

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