

# 1/8 DIN Thermocouple Meter

**MONOGRAM™  
SERIES**

DP24-T  
Starts at  
**\$225**



- ✓ 5-Year Warranty
- ✓ Easy to Use
- ✓ Single-Button °C/°F Selection
- ✓ Min or Max Recall
- ✓ Display Hold and Blanking

The DP24-T is an accurate, reliable, economical digital panel meter for use with thermocouples J, K, T, E, R, S, N, or J DIN. Simple front-panel programming allows selection of max or min (peak or valley) temperatures. The DP24-T has plug-in screw terminal connections for thermocouple input and power as well as external display hold switches. Its compact depth of only 104 mm (4.10") allows for panel mounting in tight areas. After scaling, the front keypad can be locked out to avoid unauthorized changes and an optional bezel without "buttonholes" can be snapped into place.

## Specifications

**Accuracy:** ±0.5°C (0.9°F) @ 25°C (77°F)

**Resolution:** 1.0 or 0.1° (-100 to 1000)

**Thermocouple Inputs:** J, K, T, E, R, S, N, J DIN

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

**Storage Temp:** -40 to 85°C (-40 to 185°F)

**Display:** Red or green LED, 4-digit, 14.2 mm (0.56") high

**Relative Humidity:** 95% @ 40°C (104°F), non-condensing

**Connections:** Plug-in screw terminals

## Power Requirements

**Voltage:** 115 Vac ±15% standard (230 Vac or 10 to 32 Vdc isolated optional)

**Frequency:** 50 or 60 Hz

**Power Consumption:** 2 W max

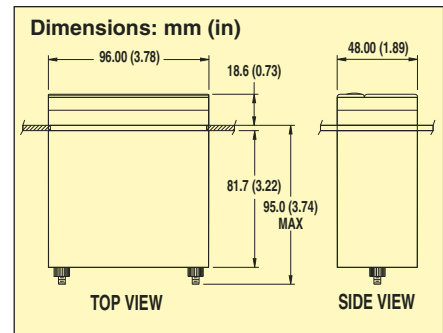
Panel Punches Available, Visit [omega.com/panelpunches](http://omega.com/panelpunches)



Optional green display (no additional charge), removable buttonless bezel, \$15.



DP24-T, \$225, shown smaller than actual size.



## Mechanical Specifications

**Dimensions:** 96 W x 48 H x 104 mm D (3.78 x 1.89 x 4.10")

**Panel Cutout:** 92 W x 45 mm H (3.62 x 1.77"), 1/8 DIN

**Depth Behind Panel:** 100 mm (3.94")

**Weight:** 312 g (11 oz)

| Input Type | Range          |                | Accuracy      |
|------------|----------------|----------------|---------------|
| J          | -210 to 760°C  | -346 to 1400°F | 0.5°C (0.9°F) |
| K          | -270 to 1372°C | -454 to 2500°F |               |
| T          | -270 to 400°C  | -454 to 752°F  |               |
| E          | -270 to 1000°C | -454 to 1832°F |               |
| N          | -270 to 1300°C | -454 to 2372°F |               |
| R/S*       | -50 to 1768°C  | -58 to 3214°F  | 0.8°C (1.4°F) |
| J DIN      | -200 to 900°C  | 328 to 1652°F  |               |

\* Type R/S: 1° resolution only.

**AVAILABLE FOR FAST DELIVERY!**

| To Order (Specify Model Number) |       |                          |
|---------------------------------|-------|--------------------------|
| Model No.                       | Price | Description              |
| DP24-T                          | \$225 | Meter with 115 Vac power |

## Power and Display Options

| Suffix | Price | Description                |
|--------|-------|----------------------------|
| -GN    | N/C   | Green LED display          |
| -230   | N/C   | 230 Vac power              |
| -DC    | \$95  | 9 to 32 Vdc isolated power |

| Accessories |       |   |
|-------------|-------|---|
| Model No.   | Price | Description   |
| SPC4        | \$30  | 1/8 DIN NEMA 4 (IP65) splashproof lens with screw clamp |
| SPC18       | 30    | 1/8 DIN NEMA 4 (IP65) splashproof lens with spring clip |
| BBZL-P      | 15    | Removable buttonless bezel                              |
| DPP-5       | 525   | 1/8 DIN panel punch                                     |

Comes complete with operator's manual.

**Ordering Example:** DP24-T-GN-DC, process monitor with green LED display, 9 to 32 Vdc power, \$225 + 95 = \$320.





#### UNITED STATES

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

#### CANADA

[www.omega.ca](http://www.omega.ca)  
Laval(Quebec)  
1-800-TC-OMEGA

#### GERMANY

[www.omega.de](http://www.omega.de)  
Deckenpfronn, Germany  
0800-8266342

#### UNITED KINGDOM

[www.omega.co.uk](http://www.omega.co.uk)  
Manchester, England  
0800-488-488

#### FRANCE

[www.omega.fr](http://www.omega.fr)  
Guyancourt, France  
088-466-342

#### CZECH REPUBLIC

[www.omegaeng.cz](http://www.omegaeng.cz)  
Karviná, Czech Republic  
596-311-899

#### BENELUX

[www.omega.nl](http://www.omega.nl)  
Amstelveen, NL  
0800-099-33-44



## More than 100,000 Products Available!

### • Temperature

Calibrators, Connectors, General Test and Measurement Instruments, Glass Bulb Thermometers, Handheld Instruments for Temperature Measurement, Ice Point References, Indicating Labels, Crayons, Cements and Lacquers, Infrared Temperature Measurement Instruments, Recorders Relative Humidity Measurement Instruments, RTD Probes, Elements and Assemblies, Temperature & Process Meters, Timers and Counters, Temperature and Process Controllers and Power Switching Devices, Thermistor Elements, Probes and Assemblies, Thermocouples Thermowells and Head and Well Assemblies, Transmitters, Wire

### • Flow and Level

Air Velocity Indicators, Doppler Flowmeters, Level Measurement, Magnetic Flowmeters, Mass Flowmeters, Pitot Tubes, Pumps, Rotameters, Turbine and Paddle Wheel Flowmeters, Ultrasonic Flowmeters, Valves, Variable Area Flowmeters, Vortex Shedding Flowmeters

### • pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

### • Data Acquisition

Auto-Dialers and Alarm Monitoring Systems, Communication Products and Converters, Data Acquisition and Analysis Software, Data Loggers Plug-in Cards, Signal Conditioners, USB, RS232, RS485 and Parallel Port Data Acquisition Systems, Wireless Transmitters and Receivers

### • Pressure, Strain and Force

Displacement Transducers, Dynamic Measurement Force Sensors, Instrumentation for Pressure and Strain Measurements, Load Cells, Pressure Gauges, Pressure Reference Section, Pressure Switches, Pressure Transducers, Proximity Transducers, Regulators, Strain Gages, Torque Transducers, Valves

### • Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters