8-Channel Benchtop Digital Thermometer/ Data Logger

For Thermocouple or RTD Sensors with USB Port

DP9800 Series

- **High Precision**
- **USB PC Interface**
- **Thermocouple and RTD Models**
- **Built-In Display for Selected Channel or Scanned Channels**
- **Resolution 0.1°C on LCD Display, 0.01°C in Software**
- **Self-Calibration Feature**
- **Select °C/°F**
- **PC Software Included for Remote Control and Measure, Logging and Calibration**
- **Simple Operation**

DP9800 shown smaller than actual size.

The DP9800 Series thermometer can be used in conjunction with a PC to provide accurate, versatile 8 channel thermocouple and Pt100 RTD temperature measurements, scanning and logging of measured values. It can also be used as a "stand alone" indicator/logger and incorporates a digital backlit LCD display of measured temperature.

The built-in self-calibration facility for the DP9800-TC thermocouple model is a rapid and convenient method for on-site calibration and does not require any additional equipment other than a special, external link. Self-calibration of Pt100 ranges is equally simple and uses plug-in precision resistors.

The DP9800 is designed to provide exceptional stability with high measurement resolution and represents an ideal crossover between plant practicality and laboratory performance at a very competitive price.

The PC software supplied with the instrument allows control, measure and calibration functions.

Specifications

At an ambient temperature of 20°C

Input/Ranges: Thermocouple to IEC 584

Type J: -200 to 750°C (-328 to 1382°F)
Type K: -200 to 1200°C (-328 to 2192°F)
Type T: -200 to 350°C (-328 to 662°F)
Type E: -200 to 900°C (-328 to 1652°F)
Type N: 0 to 1300°C (32 to 2372°F)
Type R: 0 to 1760°C (32 to 3200°F)
Type S: 0 to 1760°C (32 to 3200°F)
Type B: 300 to 1800°C (572 to 3272°F)
Pt100 to IEC751, 3-Wire: -200 to 850°C (-328 to 1562°F)

Note: *all inputs are non-isolated and thermocouples must be ungrounded style.*

Accuracy: Thermocouples J, K, T, E, and N, better than ±0.1°C ±0.1% of range zero to span ±0.15% of range -100 to - 200°C (J, K, T, and E)

Thermocouples: R, S, and B, better than ±0.1°C ±0.15% of range

Linearization: ±0.05°C

Pt100 Range: Better than ±0.05°C ±0.1% of range

Zero Drift: ±0.01% of span per °C

Span Drift: ±0.01% of span per °C

Display: LCD, backlight

Display Resolution: Thermocouple ranges 0.1°C, Pt100 range 0.01°C

User Interface: Front panel key for channel number or auto-scan selection; PC software for all other functions

Indication: Channel number, measured temperature (°C or °F)

Reference Junction: Automatic, accurate reference

Self Calibration: User facility incorporated; the instrument auto-calibrates on every A/D cycle

Sensor: Open circuit upscale indication, detection and indication (independent alarms should be used for process safety if required)

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

Storage Temperature: -20 to 70°C (-4 to 158°F)

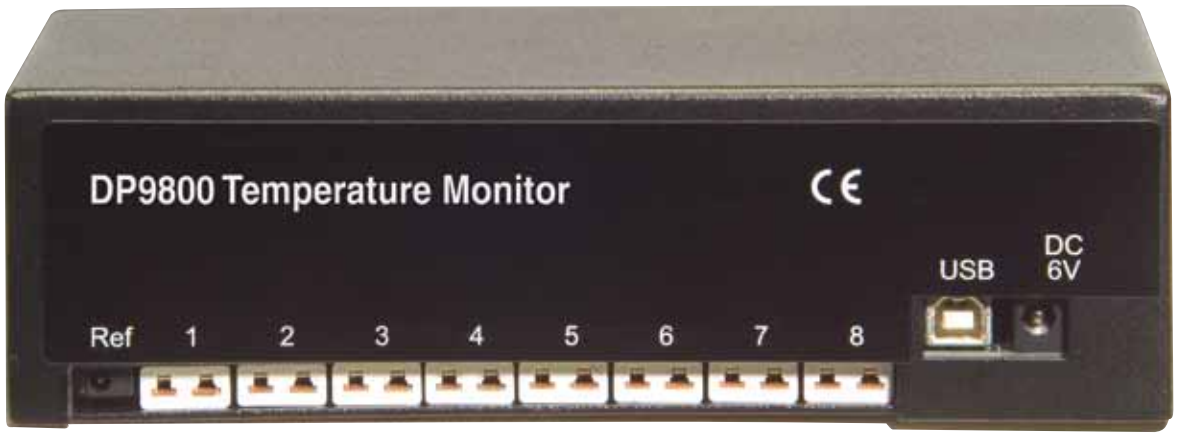
Input Terminations: 8 x thermocouple, mini connectors

Terminal Blocks: 8 x Pt100

PC Interface: USB

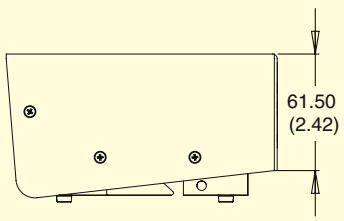
Power Supply: 6 Vdc (5.5 to 9.0V) via universal mains adaptor (supplied), 120 to 250V, 50/60 Hz

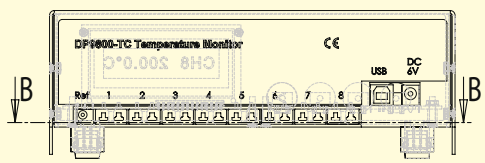
Logging Interval: 5 second to 1 hour

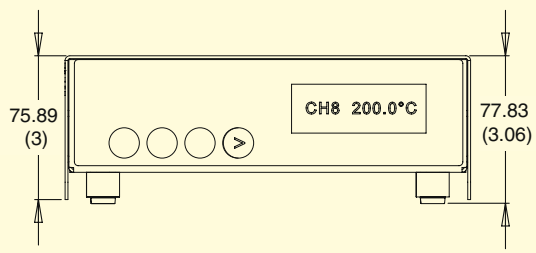


DP9800, rear view, shown smaller than actual size.

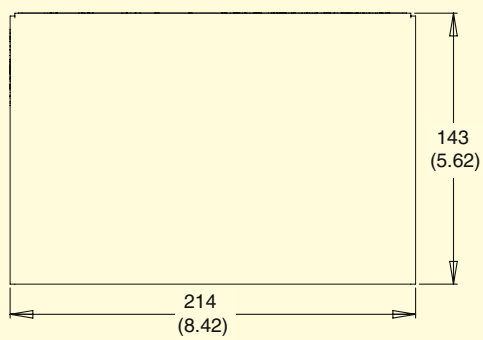
Dimensions: mm (inch)







DP9800 shown smaller than actual size.



To Order *Visit omega.com/dp9800 for Pricing and Details*

Model No.	Description
DP9800-TC	8-channel thermocouple digital thermometer/data logger with USB
DP9800-RTD	8-channel RTD digital thermometer/data logger with USB

Comes complete with power adaptor, USB cable, software and operator's manual (on CD).
***Ordering Examples: DP9800-TC,** 8-channel thermocouple digital thermometer/data logger.*
***OCW-3,** OMEGACARE℠ extends standard 2-year warranty to a total of 5 years.*