

Temperature Panel and Benchtop Meters

1/8 DIN Size with LCD Display



- ✓ Easy-to-Read Backlit LCD
- ✓ °C/°F Switchable
- ✓ 0.1°/1° Auto Ranging
- ✓ Thermocouple Selectable by Rear Panel Switches
- ✓ Front Panel Splash-Proof (IP65)
- ✓ Can Be Used with OS36, OS37, and OS38 Infrared Probes
- ✓ Optional RS-232
- ✓ Benchtop Portable Meters
- ✓ Rugged ABS Case
- ✓ Available as Single- or Six-Input Models

The DP5000A and BS6000 series of temperature panel and benchtop meters are both highly versatile and accurate. Available in thermocouple and infrared inputs, thermistor and RTD versions with 0.1 degree resolution, auto ranging to 1 degree above 1000°.

The thermocouple versions are switch selectable for one of six thermocouple types from the rear panel. The DP5000A series is micro-processor driven and fully self-calibrating, offering exceptional accuracy and long term stability. The backlit LCD is easy to read in any light conditions from dim to bright sunlight, or fluorescent lighting.

Specifications for DP5000A and BS6000 Series

Inputs: Thermocouples: J, K, T, E, N, R, S; RTD Pt100, 2-, 3-, or 4-wire, Alpha 0.00385,

Thermistor: 2252 Ω at 25°C (77°F).

Display: 4-digit, backlit LCD

Accuracy:

±0.15% of rdg + 0.2°C at or above 0°C (+0.4°F) at or above 32°F
±1°C below 0°C (±2°F below 32°F)

Resolution:

0.1° to 999.9°; 1° above 1000°

Temperature Coefficient:

0.01% of rdg/°C

Cold Junction Compensation:

0.0075°C/°C (0.0135°F/°F)

Ambient Temperature:

0 to 50°C (32 to 122°F)

Storage Temperature:

-40 to 50°C (-40 to 122°F)

Humidity: 0 to 70% non-condensing

Power: 110 Vac (standard),

Optional 230 Vac or 9 to 30 Vac/dc



Model BS6050
Single RTD Input
\$495

All models shown smaller than actual size

Model BS6000A
Single Thermocouple Input
\$495



Model BS6051
Six-Channel RTD Selectable
\$595



Model BS6001A
Six-Channel Thermocouple Selectable
\$595



Dimensions:

DP5000A, DP5050, DP5060:
96 x 48 x 120 mm (3.78 x 1.89 x 4.72")
BS6000A, BS6050, BS6060:
118 x 57 x 150 mm (4.65 x 2.24 x 5.90")
BS6001A, BS6051, BS6061:
148 x 67 x 190 mm (5.83 x 2.64 x 7.48")

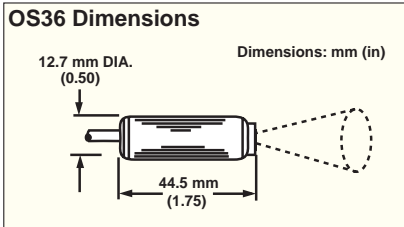
Weight:

DP5000A, DP5050, BS5060:
255 g (0.56 lb)
BS6000A, BS6050, BS6060:
500 g (1.1 lb)
BS6001A, BS6051, BS6061:
850 g (1.87 lb)

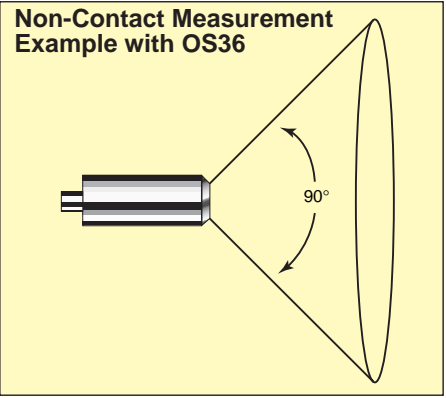


Shown smaller than actual size

DP5000A Series
\$245
 Shown



Companion Indicator:
 Six-Channel Wall Mount DP550 Series
 available in this section



The DP5000A, B56000A and BS6001A can be used with infrared sensors for non-contact temperature measurements. Fields of view range from 90 to 0.06°.

Input Ranges for DP5000 and BS6000 Series

Input	Range	
J Iron-Constantan	-200 to 1200°C	-328 to 2192°F
K CHROMECA® - ALOMEGA®	-200 to 1372°C	-328 to 2502°F
E CHROMECA® - Constantan	-200 to 1000°C	-328 to 1832°F
T Copper - Constantan	-200 to 400°C	-328 to 752°F
S Platinum - 10% Rhodium/ Platinum	-50 to 1767°C	-58 to 3212°F
R Platinum - 13% Rhodium/ Platinum	-50 to 1767°C	-58 to 3212°F
N OMEGA-P® - Nicrosil OMEGA-N® - Nisil	-200 to 1300°C	-328 to 2372°F

To Order (Specify Model Number)

Model No.	Price	Description
DP5000A	\$245	T/C input panel meter with infrared sensor input*
DP5050	245	RTD input panel meter
DP5060	245	Thermistor input panel meter
BS6000A*	495	Benchtop meter: 1 T/C and OS36, OS37 OS38 input
BS6001A*	595	Benchtop meter: 6 T/C and OS36, OS37 OS38 inputs
BS6050	495	Benchtop meter: 1 RTD input
BS6051	595	Benchtop meter: 6 RTD input
BS6060	495	Benchtop meter: 1 thermistor input
BS6061	595	Benchtop meter: 6 thermistor inputs

* Can be used with OS36-K-50 and OS36-K-440. Also will work with OS37 and OS38 units with either 20:1 or 100:1 fields of view. Comes complete with power cord, mating connector(s), operators' manual. OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order.

Ordering Example: BS6050-C2, single RTD input benchtop thermometer and RS-232 communications, \$495 + 40 = **\$535**. OCW-1 OMEGACARESM extends standard 3-year warranty to a total of 4 years (\$53), \$535 + 53 = **\$588**

Communications Options

Order Suffix	Price	Description
-C2	\$40	RS-232 communications

Power Options

Model Number	Price	Description
-9/30	N/C	9 to 30 Vac/Vdc
-230	N/C	230 Vac

Accessories

Model Number	Price	Description
DP5000-BRACKETS	\$7	Replacement panel brackets
DP5000-SBRACKETS	7	Panel brackets with adjustable screws



UNITED STATES

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1-800-TC-OMEGA
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• 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