

Benchtop Precision Thermistor Thermometers

5830 Series



- ✓ 0.01° Resolution with °C/°F Switching
- ✓ ±0.2°C Accuracy
- ✓ Touch Select Five Sensor Inputs
- ✓ Uses 400 and 700 Series Thermistors
- ✓ 6-Digit LCD Display with MIN/MAX, Average and Differential Readings
- ✓ Portable Design Works with 115 and 230 Vac Power
- ✓ Optional Rechargeable Ni-Cad Batteries Provide 8 Hours of Portable Use
- ✓ Optional Carrying Case

OMEGA's lightweight, portable 5830 digital thermistor thermometer provides precision temperature measurement, accuracy and high repeatability. With five sensor inputs (Series 400 or 700 probes), the 5830 is extremely versatile. Any of the five temperatures can be displayed by touching the appropriate panel switch. In addition, the 5830 displays maximum, minimum, average and differential temperatures. Two models are available: the 5830 features 0.1° resolution, while the 5831 has 0.01° resolution.

Model 5830 with OL-705-PP air probe shown smaller than actual size.



Specifications

Sensor Types: 400 Series (2252 Ω @ 25°C (77°F) or 700 Series linear thermistor

Ranges: -30 to 100°C (-22 to 212°F)

Resolution: 0.01° for 700 Series probe; 0.01° for 400 Series probe, -30 to 70°C (-22 to 158°F) range, 0.02° for 70 to 100°C (158 to 212°F) range

Accuracy: ±0.20°C (0.36°F)

Input Connections: Phone plug

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

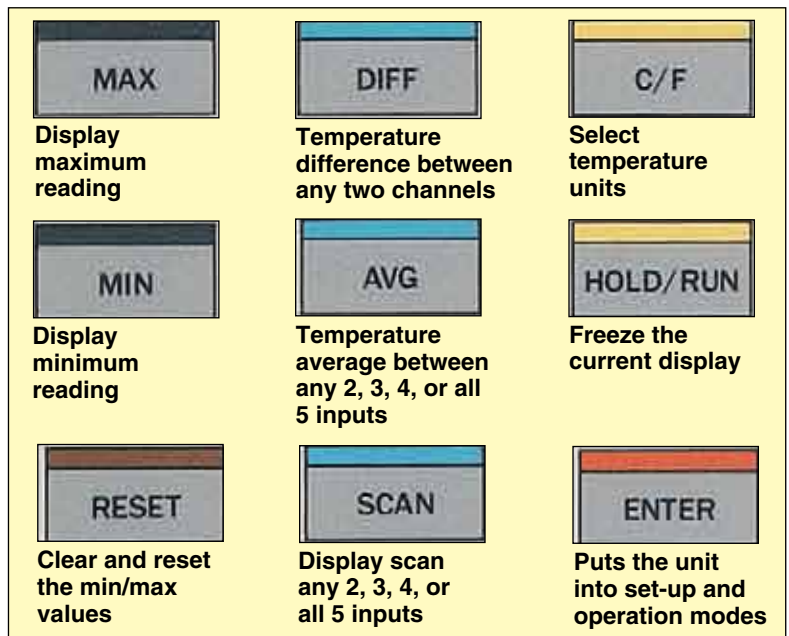
Response Time: Less than 800 mS, excluding probe

Power: 115/230 Vac includes ac adaptor, Ni-Cad batteries optional

Reading Rate: 2 per second, nominal

Dimensions: 61 H x 184 W x 201 mm D (2.4 x 7.25 x 7.9")

Weight: 0.9 kg (2 lb)



To Order

Model Number	Description
5830	Thermometer with 0.1° resolution
5831	Thermometer with 0.01° resolution
5830-A	5830 with 10 mV/degree analog output
5831-A	5831 with 10 mV/degree analog output
5830-CAL-KIT	Field calibration kit

Comes complete with ac adaptor and operator's manual.

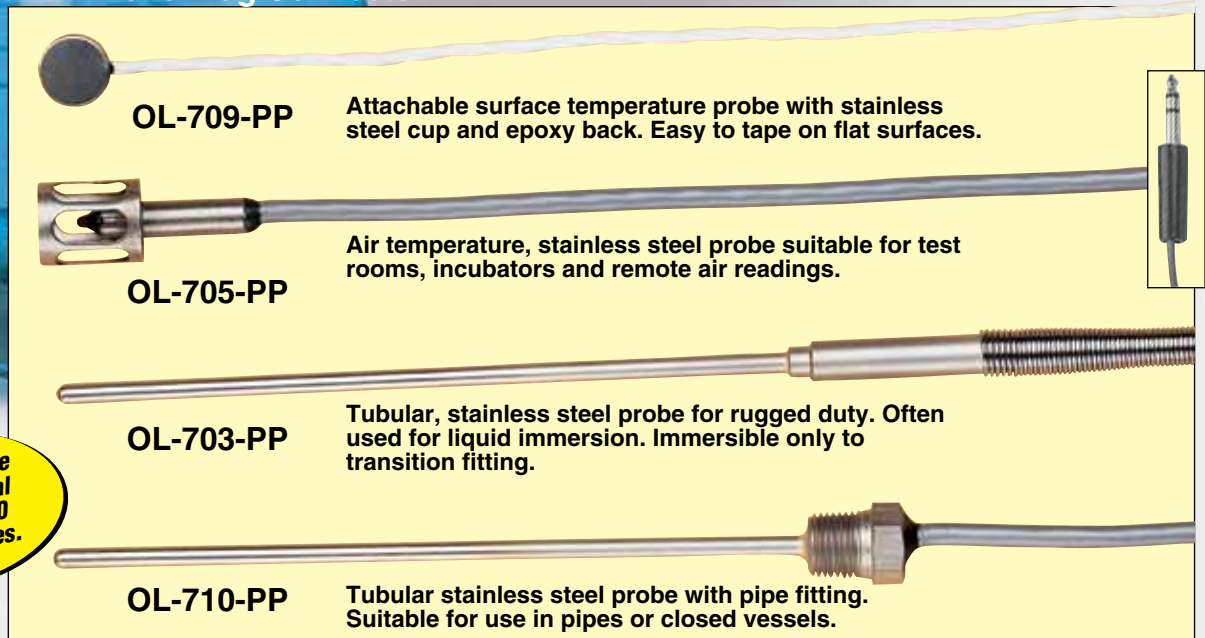
Ordering Examples: 5830-A, benchtop thermometer with 10 mV/degree analog output.

5831, benchtop thermometer. OCW-3, OMEGACARESM extends standard 1-year warranty to a total of 4 years.



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

700 Series Thermistor Probes with Phone Plug Connector



OL-709-PP Attachable surface temperature probe with stainless steel cup and epoxy back. Easy to tape on flat surfaces.

OL-705-PP Air temperature, stainless steel probe suitable for test rooms, incubators and remote air readings.

OL-703-PP Tubular, stainless steel probe for rugged duty. Often used for liquid immersion. Immersible only to transition fitting.

OL-710-PP Tubular stainless steel probe with pipe fitting. Suitable for use in pipes or closed vessels.

Visit us online for additional 400 and 700 Series probes.