

# RTD Thermometers

## High Accuracy



- ✓ Comes with NIST Traceability Certificate (No Points)
- ✓ 3- and 4-wire RTDs
- ✓ High Accuracy
- ✓ 0.1° and 1° Resolution
- ✓ Compact and Rugged
- ✓ DIN 43760 Standard

868F/869C  
**\$310**

868F, \$310, shown smaller than actual size.



TA4F connector provided with each unit.

### Specifications

**Sensor:** 3- or 4-wire 100 Ω Platinum RTD  $\alpha=0.00385$

**Accuracy:** Includes DIN 43760 conformity (no points), repeatability, temperature coefficient (18 to 28°C ambient), time stability (1 year) and errors with up to 50 Ω of resistance in each lead; excluded probe errors

**Repeatability:** Less than 0.2°F typical for one week at constant ambient temperature

**Temperature Coefficient:** 18 to 28°C (64 to 82°F); included in accuracy specification; less than 18°C (64°F) or greater than 28°C (82°F) less than  $\pm(0.015^\circ\text{C})/^\circ\text{C}$

**Maximum Lead Resistance:** 4-wire: 50 Ω max; 3-wire: 10 Ω max

**Display:** 3½ digit LCD, 13 mm (0.5") height; polarity, decimal point, open sensor and overrange indication

**Reading Rate:** 1.5 per second

**Battery Life:** 500 hours typical, with 9V alkaline battery (included)

**Battery Indicator:** Display reads "LO BAT" when less than 10% of life remains

**Linearization:** Ratiometric dual-slope A/D with continuous linearization

**Mating Connection:** OMEGA® series T instrumentation connectors (model TA4F and TA4FL), see section G

**Environmental Limits:** Operating: -10 to 50°C (14 to 122°F), less than 80% RH, up to 35°C

**Storage:** -35 to 60°C (-31 to 140°F), less than 90% RH, up to 35°C

**Maximum Common Mode Voltage:** 42V peak

**Dimensions:** 160 H x 69 W x 31 D mm (6.3 x 2.7 x 1.2")

**Net Weight:** 210 g (7.5 oz)

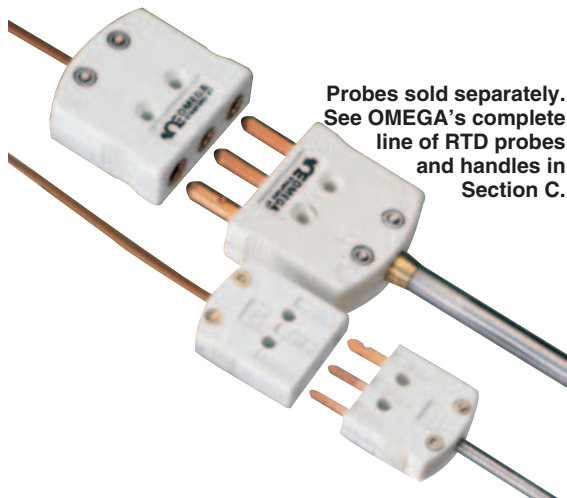
OMEGACARE<sup>SM</sup> extended warranty program is available for models shown on this page. Ask your Sales representative for full details when placing an order. OMEGACARE<sup>SM</sup> covers parts, labor and equivalent loaners.

**AVAILABLE FOR FAST DELIVERY!**

To Order (Specify Model Number)					
Model No.	Price	Setting	Range	Resolution	Accuracy
868F	\$310	200°F	-199.0 to -100.1°F -100.0 to +199.9°F	0.1°F 0.1°F	$\pm 1.0^\circ\text{F}$ $\pm 0.4^\circ\text{F}$
		1100°F	-100 to +1100°F -360 to -101°F	1°F 1°F	$\pm 2^\circ\text{F}$ $\pm 4^\circ\text{F}$
869C	310	200°C	-100.0 to +199.9°C -199.0 to -100.1°C	0.1°C 0.1°C	$\pm 0.3^\circ\text{C}$ $\pm 1.5^\circ\text{C}$
		1100°C	-100 to 630°C -220 to +101°C	1°C 1°C	$\pm 1^\circ\text{C}$ $\pm 2^\circ\text{C}$

Accessories		
Model No.	Price	Description
SC-800	\$10	Soft carrying case
TA4F	7	Series T 4-wire connector (1 supplied)
MN1604	3	9V alkaline battery
OT-201-1/2	5	½ oz jar of high thermal conductivity paste for fast surface measurements
CAL-3-HH	75	NIST-traceable calibration with points

Comes complete with 9V alkaline battery, operator's manual, mating input connector (TA4F).  
**Ordering Example:** 868F, RTD thermometer, with fahrenheit readout, \$310. OCW-3, OMEGACARE<sup>SM</sup> extends standard 1-year warranty to a total of 4 years (\$77) \$310 + 77 = \$387.



Probes sold separately. See OMEGA's complete line of RTD probes and handles in Section C.



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0800-8266342

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Manchester, England  
0800-488-488

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#### CZECH REPUBLIC

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