

Calibrator/Thermometer

CL3515R
\$315



Standard

CL3515R, \$315, shown with 2 Type K thermocouples (included), shown smaller than actual size.

- ✓ USB and RS232 Interface with Windows® Software
- ✓ 11 Types of Thermocouples: K, J, T, E, R, S, N, L, U, B, and C (in °C, °F, or K), and mV Signal Output
- ✓ NIST-Traceable Calibration Certificate with 7 Data Points (Included)
- ✓ 2 Channels for Thermocouple Temperature Measurement (T1 and T2) with Offset Adjustment
- ✓ Ergonomic Rotary Knob Allows for One-Handed Operation

The CL3515R is a portable calibrator/thermometer with a 4-digit LCD. It is designed to use external Type K/J/T/E/R/S/N/L/U/B/C thermocouples as temperature sensors. OMEGA offers a complete selection of thermocouples, or we can custom-design parts to meet your specifications. The thermometer features a dual thermocouple input and an adjustable thermocouple offset. The thermocouple types comply with the NIST monograph 175, revised to ITS-90 standards.

Specifications

Thermocouple (Resolution) Measurement Range*:

- K:** (0.1°) -200 to 1372°C (-328 to 2501°F)
- J:** (0.1°) -210 to 1200°C (-346 to 2192°F)
- T:** (0.1°) -250 to 400°C (-418 to 752°F)
- E:** (0.1°) -250 to 1000°C (-418 to 1832°F)
- R:** (1°) 0 to 1767°C (32 to 3212°F)
- S:** (1°) 0 to 1767°C (32 to 3212°F)
- N:** (0.1°) -200 to 1300°C (-328 to 2372°F)
- L:** (0.1°) -200 to 900°C (-328 to 1652°F)
- U:** (0.1°) -200 to 600°C (-328 to 1112°F)
- B:** (1°) 600 to 1820°C (1112 to 3308°F)
- C:** (1°) 0 to 2316°C (32 to 4200°F)

* According to temperature standard ITS-90.

Accuracy:

- Thermocouple Types K/J/T/E/L/U:**
 $\pm(0.05\% \text{ rdg} + 0.5^\circ\text{C})$ -50 to 1372°C
 $[\pm(0.05\% \text{ rdg} + 1.0^\circ\text{F})$ -58 to 2501°F]

$\pm(0.05\% \text{ rdg} + 1.0^\circ\text{C})$ -50 to -250°C
 $[\pm(0.05\% \text{ rdg} + 2.0^\circ\text{F})$ -58 to -346°F]

Thermocouple Type N:

$\pm(0.05\% \text{ rdg} + 1.0^\circ\text{C})$ -50 to 0°C
 $[\pm(0.05\% \text{ rdg} + 2.0^\circ\text{F})$ -58 to 32°F]
 $\pm(0.05\% \text{ rdg} + 0.5^\circ\text{C})$ 0 to 1300°C
 $[\pm(0.05\% \text{ rdg} + 1.0^\circ\text{F})$ 32 to 2372°F]

Thermocouple Types R/S/B/C:

$\pm(0.05\% \text{ rdg} + 2^\circ\text{C})$ 0 to 1767°C
 $[\pm(0.05\% \text{ rdg} + 4^\circ\text{F})$ 32 to 3212°F]

Thermocouple Simulation Range:

Resolution: 0.1° (1° for R/S/B/C)
Accuracy*: $\pm(0.3^\circ\text{C} + 10 \mu\text{V})$

* Accuracy is specified for operating temperatures from 18 to 28°C (64 to 82°F) for 1 year, not including thermocouple error.

mV Range: -25 to 75 mV

Resolution: 10 μV

Accuracy: $\pm 0.025\% + 1$ digit

Temperature Coefficient:

0.1 times the applicable accuracy specification per °C from 0 to 18°C and 28 to 50°C (32 to 64°F and 82 to 122°F)

Display: 4-digit LCD with max reading of 19999

Input Connector: Miniature thermocouple connector (SMP type)

Power: 9V battery (included)

Battery Life: 17.5 hours nominal with low-battery indicator

Dimensions:

192 H x 91 W x 52.5 mm D
 (7.5 x 3.5 x 2.1")

Weight: 320 g (0.7 lb)

Environmental

Ambient Operating Ranges:

0 to 50°C (32 to 122°F), <80% RH

Storage Ranges:

-20 to 60°C (-4 to 140°F), <70% RH



Free Thermocouples Included!

All CL3515R models include 2 free 900 mm (36") Type K insulated beaded wire thermocouple with subminiature connector and wire spool caddy.
Order a Spare! Model No. SC-GG-K-30-36, \$15

Recommended Reference Book:
 Temperature Measurement, **GE-1402, \$134.**
 Visit omega.com/bobi
 for Additional Books

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)		
Model No.	Price	Description
CL3515R	\$315	Thermocouple calibrator
SC-HH500	12.00	Soft case
RSC-J-1-4-4	18.50	Type J retractable cable [0.3 m (1') expands to 1.5 m (5')] with 2 SMP-M
RSC-T-1-4-4	18.50	Type T retractable cable [0.3 m (1') expands to 1.5 m (5')] with 2 SMP-M
RSC-E-1-4-4	18.50	Type E retractable cable [0.3 m (1') expands to 1.5 m (5')] with 2 SMP-M
RSC-K-1-4-4	18.50	Spare Type K retractable cable [0.3 m (1') expands to 1.5 m (5')] with 2 SMP-M
88013K	110.00	Surface probe up to 815°C (1500°F)
KTSS-HH	29.00	Immersion probe

Comes complete with 2 Type K beaded thermocouples [max temperature 260°C (500°F)], 9V battery, TAS transition adaptor, 1 Type K cable, 2 PC interface cables, software and operator's manual.

Ordering Example: CL3515R, thermocouple calibrator, \$315.



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