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

* According to temperature standard ITS-90.

Accuracy:

Thermocouple Types K/J/T/E/L/U:

±(0.05% rdg + 0.5°C) -50 to 1372°C
±(0.05% rdg + 1.0°C) -50 to 1372°C
±(0.05% rdg + 2.0°C) -50 to 1372°C

Thermocouple Type N:

±(0.05% rdg + 0.5°C) -50 to 0°C
±(0.05% rdg + 2.0°C) -50 to 0°C
±(0.05% rdg + 0.5°C) 0 to 1300°C
±(0.05% rdg + 1.0°C) 32 to 3212°F

Thermocouple Simulation Range:

Resolution: 0.1°C (1° for R/S/B/C)
Accuracy*: ±(0.3°C + 10 µV)

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

Ordering Example: CL3515R, thermocouple calibrator.

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-TT-K-30-36

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.

To Order

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<th>Model No.</th>
<th>Description</th>
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<tr>
<td>CL3515R</td>
<td>Thermocouple calibrator</td>
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<tr>
<td>SC-HH500</td>
<td>Soft case</td>
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<tr>
<td>RSC-J-1-4-4</td>
<td>Type J retractable cable [0.3 m (1’) expands to 1.5 m (5’)] with 2 SMP-M</td>
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<tr>
<td>RSC-T-1-4-4</td>
<td>Type T retractable cable [0.3 m (1’) expands to 1.5 m (5’)] with 2 SMP-M</td>
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<tr>
<td>RSC-E-1-4-4</td>
<td>Type E retractable cable [0.3 m (1’) expands to 1.5 m (5’)] with 2 SMP-M</td>
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<tr>
<td>RSC-K-1-4-4</td>
<td>Spare Type K retractable cable [0.3 m (1’) expands to 1.5 m (5’)] with 2 SMP-M</td>
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<td>88013K</td>
<td>Surface probe up to 815°C (1500°F)</td>
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<tr>
<td>KTSS-HH</td>
<td>Immersion probe</td>
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Ordering Example: CL3515R, thermocouple calibrator.

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