

High Performance Universal RTD Calibrator

CL515-PLUS



Standard

- ✓ Easy to Use
- ✓ Calibrate and Measure Most RTD Sensors
- ✓ Comes Protected With a Rugged Rubber Boot
- ✓ Calibrate Directly in Temperature (°C or °F)
- ✓ Compatible With All Process Instruments

With the CL515-PLUS you can check and calibrate all your RTD instruments and measure RTD Sensors. Automatic indication of connections on the display for simple hookups.

Stop carrying around a decade box and RTD resistance tables. The CL515-PLUS works with the RTDs you use including Platinum 100 (alpha = 3850, 3902, 3926) & 1000 (alpha = 3850, 3750) Ohm, Copper 10 & 50 Ohm, Nickel 100 and 120 Ohm. Easily set any value quickly to within 0.1° with the adjustable digital potentiometer “DIAL” plus store any three temperatures for instant recall with the check switch.

Calibrate quickly with automatic output stepping, choose between 2, 3, 5, 11 and 21 steps to automatically increment the output in 100%, 50%, 25%, 10% or 5% of span. Select the step time to match your system from 5, 6, 7, 8, 10, 15, 20, 25, 30 and 60 seconds.

Carry it without worry—it comes protected with a rubber boot and rugged, low profile switch. Easy to operate even in the dark areas of the plant with the backlit display.

Specifications

(Unless otherwise indicated all specifications are rated from a nominal 23°C, 70% RH for 1 year from calibration)

Accuracy: $\pm(0.015\%$ of Reading + 0.05 Ω)

Temperature Drift: $\pm 0.01\%$ of span outside of 23°C $\pm 10^\circ\text{C}$ (73°C $\pm 18^\circ\text{F}$)

Operating Temperature Range: -25 to 60°C (-10 to 140°F)

Relative Humidity Range: 10% \leq RH \leq 90% (0 to 35°C), non-condensing
10% \leq RH \leq 70% (35 to 60°C), non-condensing

Dimensions: 143 L x 76 W x 41 mmH (5.63 x 3.00 x 1.60")

Weight: 0.34 kg (12.1 oz) including boot and batteries

Power: 4 “AA” Alkaline 1.5V (LR6) (included)

Battery Life: 50 hours low battery low battery indication with nominal 1 hour of operation left; protection against misconnection over-voltage protection to 60 Vdc (rated for 30 seconds)

Display: High contrast graphic liquid crystal display; LED backlighting for use in low lit areas

Read

Excitation: Current 0.5 mA nominal

Normal Mode Rejection: 50/60 Hz, 50 dB

Common Mode Rejection: 50/60 Hz, 120 dB



CL515-PLUS.

Source

Accuracy: From 1 to 10.2 mA external excitation Current \pm (0.015% of Reading + 0.05 Ω)

Below: 1 mA of external excitation
Current: \pm (0.015% of reading + 0.025 mV/mA excitation current + 0.05 Ω)

Resistance Ranges: 0.00 to 410.00, 410.1 to 4001.0 Ω

Allowable Excitation Current Range

<41 Ω : 10.2 mA maximum; steady or pulsed/intermittent

410 to 4001 Ω : 1 mA maximum; steady or pulsed/intermittent

Pulsed Excitation: Current compatibility DC to 0.01 second pulse width 0.025 mV

To Order

Model No.	Description
CL515-PLUS	Universal RTD Calibrator
SC-530	Replacement soft carrying case

Comes complete with rubber boot, 4 “AA” alkaline batteries, NIST certificate of calibration, carrying case, RTD wire kit, 2 red and 2 black leads with retractable shield banana plugs and spade lugs and operator’s manual.

Ordering Example: CL515-PLUS, multi-type RTD calibrator. OCW-2, OMEGACARESM extends standard 3-year warranty to a total of 5 year years.