

High-Precision Handheld Calibrator/Thermometer Kit

CL20 Series
From
£369



Simulates, Measures, and Records Thermocouple, RTD, Thermistor, and Resistance Signals—All in One Meter!

CL25, £535, shown smaller than actual size. Comes with shock-resistant holster, case, thermocouples, connectors, battery, belt clip and operator's manual.

- ✓ **0.3°C (0.5°F) Accuracy from 18 to 28°C**
- ✓ **Simulates and Measures Thermocouples, RTDs, Thermistors, and Ω**
- ✓ **0.1°C/°F Resolution**
- ✓ **10 Memory Locations for Saving Meter Readings or Calibrator Outputs**
- ✓ **Step Calibrator, Meter Hold, Thermometer Functions**
- ✓ **Ramp Function (Models CL25 and CL27)**

The OMEGA® CL20 handheld calibrators/thermometers simulate, measure, and record RTD, Ω , thermocouple, and thermistor signals—all in one. Featuring an accuracy of 0.3°C (0.5°F) at ambient temperatures from 18 to 28°C (64 to 82°F) and a host of powerful keypad functions, these low-cost meters outperform the competition.

The 5-digit LCD indicates all active functions and has 0.1°C/°F resolution. Operating mode and sensor type are also displayed.

Programming is easy. The user can enter setpoints directly on the keypad or from an outside source. Ten memory locations allow for instant recall of any programmed value, and the step function lets the user navigate the test points with the push of a button.



The ramp function of the CL25 and CL27 makes calibration easy. When the user enters the upper limit, lower limit, and step size, the meter automatically ramps between the limits. Ramping can also be performed manually.

No matter what the input type, one of these meters can handle it. The possibilities include 100 and 1000 Ω RTDs and 2252 Ω thermistors.

OMEGACARESM extended warranty programme is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labour and equivalent loan instrument.

All models shown smaller than actual size.

CL23A, £369.

CL25, £535.

CL24, £402.

CL26, £635.



88000 Series probe, sold separately, search omega.co.uk.

PR-16 RTD handle probe, sold separately, search omega.co.uk.

CL20 Series Temperature Measurement and Calibration Range

Input Type	Range		Resolution
K	-200 to 1371°C	-328 to 2502°F	0.1°
J	-210 to 760°C	-346 to 1400°F	0.1°
T	-200 to 399°C	-328 to 752°F	0.1°
E	-230 to 999°C	-382 to 1832°F	0.1°
N	-200 to 1299°C	-328 to 2372°F	0.1°
B	499 to 1815°C	932 to 3308°F	0.1°
R	0 to 1768°C	32 to 3214°F	0.1°
S	0 to 1768°C	32 to 3214°F	0.1°
G	299 to 2315°C	572 to 4201°F	0.1°
C	0 to 2315°C	32 to 4201°F	0.1°
D	0 to 2315°C	32 to 4201°F	0.1°
RTD	-200 to 849°C	-328 to 1562°F	0.1°
Series 400 Thermistor 2252	-40 to 150°C	-40 to 302°F	0.1°

Specifications

Display: 5-digit LCD; custom indicators for calibration type; units hold, recall, store, operating mode, bal, loaded memory locations (up to 10)

Keypad: Momentary switches with tactile feedback, select power, thermocouple type, units, resolution, hold, store/recall (up to 10), stop/clear, operating mode

Configuration Retention: Selected operating mode, thermocouple type, units, resolution and memory contents retained on power-off

CL26 and CL27 Resistance Measurement and Calibration Outputs

Ohms Range	Resolution	Models
0 to 100 Ω	0.01 Ω	CL26 and CL27
0 to 1000 Ω	0.1 Ω	CL27
0 to 100,000 Ω	1.0 Ω	CL26

CL20 Series Accessories

Model No.	Price	Description
HH22-AC-UK	£65	NiMH battery and adaptor, 230 Vac
CL-300-CABLE-(*)I-M600	6.70	Calibration cable, 2', 24 AWG, SMP to spade lug
CL-300-CABLE-(*)I-3M	13.50	Calibration cable, 10', 24 AWG, SMP to spade lug
CL-300-RSC-(**)I-M600	13.50	Calibration cable 2', retractable, expands to 10', SMP to spade lug

* Insert Type J, K, T, E, R/S, N or mV (uncompensated SMP connector).
** Insert Type J, K, T, E.

Diagnostics: Low battery, open input, invalid keypad entry, out of range, internal hardware fault

Accuracy: See "To Order" chart on next page for details

Ambient Temperature: 0 to 50°C (32 to 122°F), 0 to 90% RH

Reading Rate: 1/s

Input Current: 50 nA typical (meter mode)

Output Load: 100 Ω, min (calibrator mode)

Max Common-Mode Voltage: 42 V peak to earth ground

Power: 9 V alkaline battery (included)

Battery Life: 16 hr on alkaline battery

Dimensions: 178 H x 74 W x 28 mm D (7.0 x 2.9 x 1.1")

Weight: 340 g (12 oz)



MOST POPULAR MODELS HIGHLIGHTED!

To Order (Specify Model Number)

Model No.	Price	Features						
		T/C Types	Platinum RTDs	Thermistors	Resistance	Resistance Resolution	Accuracy Calibrator and Thermometer	Ramp Feature
CL23A	£369	K, J, T	—	—	—	—	±0.3°C from -46 to 677°C 0.04% over 677°C ±0.5°C under -46°C	No
CL24	402	K, J, T, E	—	—	—	—	0.04% over 677°C ±0.5°C under -46°C	No
CL25	535	K, J, T, E, N, R, S, B, G, C, D	—	—	—	—	±0.3°C full scale K, J, T, E, N 0.8°C full scale B, R, S, G, C, D	Yes
CL26	635	K, J, T, E	100 Ω	400 Series 2252 Ω	100 kΩ 100 Ω	1 Ω 0.01 Ω	±0.3°C from -46 to 677°C 0.04% over 677°C ±0.5°C under -46°C Ω: 0.04% of range ±0.3°C RTD & thermistor	No
CL27	705	K, J, T, E, N, R, S, B, G, C, D	100 Ω 1000 Ω	—	1 kΩ 100 Ω	0.1 Ω 0.01 Ω	±0.3°C full scale K, J, T, E, N 0.8°C full scale B, R, S, G, C, D Ω: 0.02% of range 0.1°C full scale RTD	Yes

Comes as a complete kit with 4 beaded wire thermocouples (J/K/T/E), 4 TAS standard to mini thermocouple adaptors (J/K/T/E), 4 calibration cables (J/K/T/E), shock-resistant holster, belt clip, integral tilt stand/handle, wrist strap and rugged carrying case. The CL26 and CL27 also include one 3-wire RTD calibration cable, one 2-wire resistance cable and one TA4F RTD adaptor. CL23A does not include Type E thermocouple, adaptor or cable.

Ordering Examples: CL24, J/K/T/E calibration/thermometer kit, £402. CL26, J/K/T/E, thermistor and RTD calibration/thermometer kit, £635. OCW-2, OMEGACARESM extends standard 3-year warranty to a total of 5 years, £115, £635 + 115 = £750.



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