

Compact Multifunction Calibrator

CA71

\$1450



Optional†

- Simultaneously Source and Measure
- Voltage, Pulse, Current, Resistance, Thermocouple, RTD, Frequency Signals
- Autostep, Sweep, and Memory Functions

The CA71 Calibrator is a small, lightweight, multifunction calibrator that can simultaneously source and measure voltage, current, resistance, TC, RTD, frequency, and pulse signals.

The Calibrator incorporates rotary switches for simple handling. Just open the carrying case cover and connect the cables, and you're ready to take measurements.

A wide array of useful functions are offered, including source (output can be set in steps): power; transmitter; divided (n/m, eliminating need for calculations for percentage output); autostep (changes can be sourced every 10% or 25%); online communication (RS232); sweep (linearly changes output over 16 or 32 seconds); memory (50 sets); and temperature monitor function.

Specifications

Parameter

Signal Generating Unit

Response Time: Approx. 1 second

Signal Generating Unit

Voltage Limiter: Approx. 32V

Signal Generating Unit

Current Limiter: Approx. 25 mA

Divided Output (n/m) Function:

Output = setting x (n/m)

where n = 0 to m; m = 1 to 19; n x m

Auto-Step Output Function:

n value sent automatically when

n/m function selection is selected

(approx. 2.5 or 5 seconds/step)

Sweep Function: Sweep time (approx.

16 or 32 seconds)

Memory Function: 50 value sets

(generated and measured values)

Measuring Unit Maximum Input:

Voltage Terminal: 300 Vac

Current Terminal: 120 mA DC



CA71, \$1450.

Current Input: Fuses: 125 mA/250V

Measuring Unit Ground Voltage:

Maximum 300 Vac

Measurement Display Updating Rate:

Approx. 1 second

Serial Interface:

Enabled via CA71-RS cable

Display: Segmented LCD

(approx. 76 x 48 mm)

Backlight: LED backlight; auto-off

Power Supply: 4 "AA" alkaline batteries (included)

Battery Life: Approx. 20-hr for measurement and voltage output (12-hr for current)

Consumed Power: Approx. 7 VA (using 120 Vac adaptor)

Auto Power-Off Function: Approx. 10 minutes (can be disabled)

Applicable Standards:

IEC61010-1, IEC61010-2-31;

EN61326-1: 1997 + A1: 1998;

EN55011: 1998, Class B, Group 1

Insulation Resistance:

500 Vdc, 50 MΩ or greater

Withstand Voltage:

3.7 kVac, for 1 minute

Operating Temperature and Humidity

Ranges: 0 to 50°C,

20 to 80% RH (no condensation)

Storage Temperature and Humidity

Ranges: -20 to 50°C, 90% RH or less (no condensation)

External Dimensions (WHD):

Approx. 190 W x 120 H x 55 mm D (7.5 x 4.7 x 2.2")

Weight: Approx. 730 g (1.6 lb)

(including batteries)

† Refer to the Order Chart for NIST calibration ordering information.

AVAILABLE FOR FAST DELIVERY!

To Order (Specify Model Number)

Model No.	Price	Description
CA71	\$1450	Calibrator
CA71-NIST†	1777	Calibrator with NIST calibration certificate

Comes complete with signal generating lead cables (1 red, 2 black), measurement lead cables (1 red, 1 black), carrying case, power- adaptor, operator's manual, fuse: A1501EF (for current terminal input protection), and 4 "AA" alkaline batteries.

Ordering Example: CA71, calibrator, supply adaptor, \$1450. OCW-2, OMEGACARESM extends standard 3-year warranty to a total of 5 years, (\$250), \$1450 + 250 = \$1700.

Accessories

Model No.	Price	Description
CA71-PS	\$46	120 Vac adaptor
CA71-PS230	99	230 Vac adaptor
CA71-FUSE	10	Fuse, input, package of 1
CA71-RS	85	RS232 cable
CA71-RJC	147	External RJC*

* Allows remote cold junction compensation for thermocouples instead of using the standard internal sensor.



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• Flow and Level

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• pH and Conductivity

Conductivity Instrumentation, Dissolved Oxygen Instrumentation, Environmental Instrumentation, pH Electrodes and Instruments, Water and Soil Analysis Instrumentation

• Data Acquisition

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• Pressure, Strain and Force

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• Heaters

Band Heaters, Cartridge Heaters, Circulation Heaters, Comfort Heaters, Controllers, Meters and Switching Devices, Flexible Heaters, General Test and Measurement Instruments, Heater Hook-up Wire, Heating Cable Systems, Immersion Heaters, Process Air and Duct, Heaters, Radiant Heaters, Strip Heaters, Tubular Heaters