

Handy Calibrators

CA51/CA71

- Source and measure operations can be performed at the same time.
(Select from the following source signal and measurement signal options: voltage, current, resistance, thermocouple (TC), resistance temperature detector (RTD), frequency, pulse).
- AC voltages, including supply voltage, can be measured.
- Includes a wide array of additional functions.
- Easy operation.
- Compact size and Lightweight



Yokogawa M&C Corporation

Bulletin CA71E

CAS1/CA71

Handy Calibrators

Comprehensive source/measure instruments for all your calibration and equipment checking needs at maintenance sites

Sensors and instruments require a wide variety of operation checks in the field. The CA71 Handy Calibrator is a small, lightweight, multifunction calibrator that can simultaneously source and measure voltage, current, resistance, TC, RTD, frequency, and pulse signals. The CA51 Handy Calibrator is a basic model with the same functions as the CA71 except TC and RTD measurement functions and online communication functions.

Simultaneous signal source and measurement capability

The CA71 lets you handle regular tests on TCs, RTDs and various other types of sensors and instruments, as well as operation checks when a problem has occurred. By itself it can source signals for input to equipment, and check output signal from equipment. With the CA71, you don't need to worry about synchronizing operations with other setting devices. (TC and RTD measurement functions are CA71 only.)



AC voltage (including supply voltage) measurement capability

In cases where numerous signal converters and other devices are mounted on a rack or panel, the Handy Calibrator can be used to check the input and output signals of each device, while simultaneously checking the power supply. There is no need for a separate multimeter to measure supply voltage.



A wide array of useful functions

•Source

Values set in steps of 4–20 mA
24V DC Power Supply to Transmitter

•Divided output (n/m) function

Output settings are divided, eliminating the need for bothersome calculations for percentage output.

•Autostep function

Changes the output value in step form based on the setting from the divided output (n/m) function. Changes can be sourced automatically every 10% or 25%.

•Online communication (CA71 only)

RS-232C-compliant optically isolated interface

•Sweep function

Linearly increases or decrease the output. The increasing/decreasing time can be set to either 16 or 32 seconds.

•Memory function

Source values and measurements forming individual value sets can be saved to or read from the Handy Calibrator's internal memory (maximum 50 value sets).

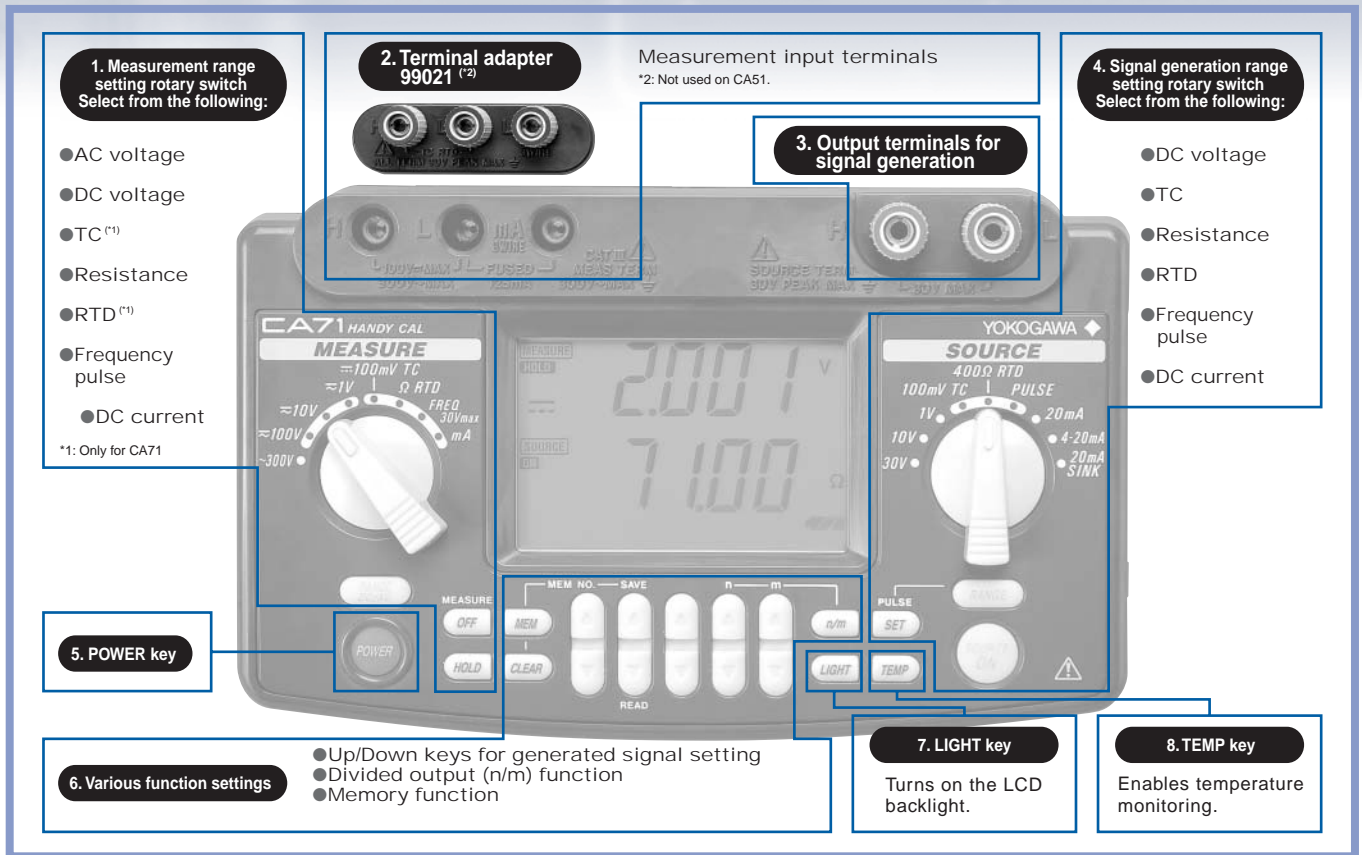
•Temperature monitor function

Easy operation

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



Panel layout



● Spare parts

Product	Source signal lead cable	Measurement lead cable	Carrying case	Terminal adapter	Fuse
Model	98020	RD031	93016	99021	A1501EF
Remarks	One set, including one red cable and two black cables. Length: approximately 1.7 meters	One set, including one red cable and one black cable. Length: approximately 1.0 meter	The carrying case can hold the source signal and measurement lead cables, terminal adapter, four spare batteries, fuses, AC adapter, and user's manual.	Used in temperature measurement (for CA71).	For current terminal input protection. (10pcs/set)

● Optional accessories (sold separately)

Product	AC adapter	RJ sensor	Accessory carrying case	Communication cable (RS232)
Model	A1020UP, A1022UP, B9108WB	B9108WA	B9108XA	91017
Remarks	A1020UP: 100 V AC power supply adapter A1022UP: 120 V AC power supply adapter B9108WB: 220-240 V AC power supply adapter	For reference junction compensation	Can hold lead cables, RJ sensor, etc.	D-sub 9-pin (female)

● Handy Calibrator main unit

Product	CA71 Handy Calibrator	CA51 Handy Calibrator
Model	CA71	CA51
Standard accessories	All of the following are included: Source signal lead cables (one red, two black): 98020 Measurement lead cables (one red, one black): RD031 Carrying case: 93016 Terminal adapter for CA71: 99021 User's manual: IM CA71-E Fuse: A1501EF (for current terminal input protection) Four AA alkaline batteries: A1070EB x4	

● Related product

Product	Handy Calibrators CA11/12/13
Model	71010/21/30
Remarks	CA11: Voltage/current model CA12: Temperature model CA13: Frequency model