

Multi-functions

CURRENT, VOLTAGE, Type K CALIBRATOR

Model : CC-423

ISO-9001, CE, IEC1010

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02-2389-0101



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The Art of Measurement

Multi-functions

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FEATURE

* Multi-Source output : Current source, 2. Voltage source, 3. Type K Temp. source.
* Three kinds measurement function : 1. Current measurement, 2. Power and current measurement, 3. Type K Temp. measurement.
* Portable instrument for calibrating process devices.
* Adjustable 0-24 mA current source.
* Current calibrator drives loads up to 500 ohms.
* Four function provide the quality and accuracy of handheld calibrator of precision current source.

GENERAL SPECIFICATION

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 30 mm. LCD with white backlight (ON/OFF).
Measurement	Current :Max. 24 mA. Type k Temp : - 199.9 to 1370.0 °C .
Source	Current : 0 to 24.00mA . Voltage (DC mV : - 200.0 to + 200.0 mV). Type k Temp : - 199.9 to 1370.0 °C .
Sampling Time of Display	Approx. 1 second.
Advanced setting	Auto power OFF management. Set unit °C or °F .
Operating Temperature and Humidity	0 to 50 °C . Less than 85% R.H.
Power Supply	* Alkaline or heavy duty DC 1.5 V battery (UM3, AA) x 6 PCs, or equivalent. * DC 9V adapter input. (AC/DC power adapter is optional).
Power Current	Normal operation (w/o current source) : Approx. DC 18 mA. (LCD Backlight is ON) : Approx. + DC 5 mA. Current source (under 10 mA signal out put) : Approx. DC 33 mA. (Backlight is ON) : Approx. + DC 5 mA.
Weight	Meter : 306 g/ 0.67 LB. (with cable)
Dimension	Meter : 178 x 68 x 45 mm
Accessories Included	* Instruction manual 1 PC * Hard carrying case(CA-06) 1 PC * V, A cable LN-TL421 1 PC * Type K source cable AC-DUK02 1 PC
Optional Accessories	AC to DC 9V adapter. TP-01,TP-02A, TP-03, TP-04, TP-05

ELECTRICAL SPECIFICATIONS (23±5 °C)

Current source

Current source		
Range	Display Resolution	Accuracy
0.05 - 24.00 mA	0.01 mA	±(0.25 % FS)
* Output 0-20 mA current for loads up to 500 ohms. Output > 20 mA current for loads up to 400 ohms. * FS : full scale		

Voltage source

Voltage source		
Range	Display Resolution	Accuracy
-199.9 mV to +199.9 mV	0.1 mV	±(0.25 % FS +0.2mV)

* Output measured load impedance should > 1 K ohms.

Type k source

Type k source		
Range	Display Resolution	Accuracy
-199.9 to 1370.0 °C	0.1 degree	> -100°C ±(0.1 % FS + 1 °C)
		< -100°C ±(0.1 % FS + 2 °C)
-327.0 to 2498.0 °F	0.1 degree	> -148°F ±(0.1 % FS + 2 °F)
		< -148°F ±(0.1 % FS + 4 °F)

* input impedance : 10¹² ohms.

Current measure

Current measure		
Range	Display Resolution	Accuracy
0 - 24.00 mA	0.01 mA	±(0.25 % FS + 1 d)

* input load 10 ohm FS : full scale

Power and current measurement of two wire loop

Power and current measurement of two wire loop		
Range	Display Resolution	Accuracy
0 - 24.00 mA	0.01 mA	± (0.25 % FS + 1 d)

* Provides power DC 12V ±2V to the loop and measures
* input load 10 ohm FS : full scale

Type k measure

Type k measure		
Range	Display Resolution	Accuracy
-199.9 to 1370.0 °C	0.1 degree	± (0.1 % FS + 1.0 °C)
-327.0 to 2498.0 °F	0.1 degree	± (0.1 % FS + 2.0 °F)

* input impedance : 10¹² ohms.

Remark :

The above specifications are tested under the environment RF Field Strength less than 3 V/M & frequency less than the 30 MHz only.

☆ CAUTION

- * Do not apply a voltage exceeding the maximum input voltage. otherwise the input part may be damaged.
- * Do not short_circuit or apply an external voltage to output terminals of the instrument or standard equipment, or else their internal circuitry may be damaged.

* Appearance and specifications listed in this brochure are subject to change without notice.

CC-423+1803