

LCT - 3600



LoopThermo[®]

4-20mA Loop Calibrator + Thermometer

Features

- 4-20mA, 0-24mA with 1uA resolution
- Basic accuracy 0.025%
- 0-24V with 1mV resolution
- 1 to 20KHz square wave output with programmable duty cycle
- Auto ramp and auto step for mA and V output
- Easy fixed 25% up and down or programmable percentage (%) increase and decrease (mA, V)
- Measurement of DC mA, DC V and temperature
- 11 types of thermocouple selection
- Calibrator grade precision temperature measurement with 0.1°C/0.1°F resolutions
- Measuring DC mA with Loop Power (24V output)
- Source and Measure at the same time



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Specifications (23°C ± 5°C, 10 min. after power on)

DC mA (SOURCE, Max. Load 1KΩ, Max. Voltage Supply 24V)

Range	Resolution	Accuracy
0 – 4mA	1μA	± 0.025% ± 10μA
4 – 20mA	1μA	± 0.025% ± 5μA
20 – 24mA	1μA	± 0.025% ± 5μA

When output Open, the LCD displays “OL”.

DC V (SOURCE)

Range	Resolution	Accuracy
0 – 4V	1mV	± 0.05% ± 10mV
4 – 20V	1mV	± 0.05% ± 5 mV
20 – 24V	1mV	± 0.05% ± 5 mV

When output Short circuit, the LCD displays “OL”.

Frequency

(SOURCE, TTL, Square wave, Duty cycle = 1~99%)

Range (Hz)	Resolution	Accuracy
1.0~1000.0Hz	0.1Hz	0.1Hz
1000~10000Hz	1Hz	1Hz
10000~20000Hz	1Hz	10Hz

DC mA (MEASURE)

Range	Resolution	Accuracy of Reading
0.005mA to 4mA	1uA	+/-0.025% +/-5dgts
4mA to 20mA	1uA	+/-0.025% +/-5dgts
20mA to 24mA	1uA	+/-0.025% +/-5dgts

If reading of mA (measure) is less than 5 digits, it is displayed as 0.

DC V (MEASURE)

Range	Resolution	Accuracy of Reading
0V to 24V	0.001V	+/-0.025% +/-5dgts

If reading of V (measure) is less than 5 digits, it is displayed as 0.

General Specifications

Dimension	214.0(L) x 98.7(W) x 56.0(H) mm 8.4" (L) x 3.9" (W) x 2.2" (H)
Weight	650g / 22.9oz (Batteries included)
Operation Environment	0°C ~ 50°C, 85% RH
Accessories	Carrying case x 1 User manual x 1 1.5V SUM-3 battery x 5 K-type thermocouples (1M, single plug) x 1 Alligator clips x 2 (black and red) Test leads x 2 (black and red)

Temperature of Thermocouples

(Measure, Resolution 0.1°C & 0.1°F, Internal cold junction compensation, Thermocouples accuracy not included, 3 minutes after plugging in thermocouples)

	°C		°F	
	Range	Accuracy	Range	Accuracy
K	-200 to -150	2.0	-382 to -238	3.6
	-150 to 0	1.2	-238 to 32	2.1
	0 to 1000	0.8	32 to 1832	1.4
	1000 to 1370	1.2	1832 to 2498	2.1
J	-200 to -150	2.0	-382 to -238	3.6
	-150 to 0	1.0	-238 to 32	1.8
	0 to 1050	0.7	32 to 1922	1.2
E	-200 to -150	1.5	-382 to -238	2.7
	-150 to 0	0.9	-238 to 32	1.6
	0 to 850	0.7	32 to 1562	1.2
T	-200 to -150	1.5	-382 to -238	2.7
	-150 to 0	1.2	-238 to 32	2.1
	0 to 400	0.8	32 to 752	1.4
R	0 to 500	1.8	32 to 932	3.2
	500 to 1760	1.5	932 to 3200	2.7
S	0 to 500	1.8	32 to 932	3.2
	500 to 1760	1.5	932 to 3200	2.7
N	-200 to 0	1.5	-328 to 32	2.7
	0 to 1300	0.9	32 to 2372	1.6
L	-200 to 0	0.9	-328 to 32	1.6
	0 to 900	0.7	32 to 1652	1.2
U	-200 to 0	1.1	-328 to 32	1.9
	0 to 600	0.7	32 to 1112	1.2
B	600 to 800	2.2	1112 to 1472	3.9
	800 to 1000	1.8	1472 to 1832	3.2
	1000 to 1820	1.4	1832 to 3308	2.5
C	0 to 1800	1.0	32 to 3272	1.8
	1800 to 2310	1.5	3272 to 4190	2.7

* Specifications are subject to change without notice.