Multi-functions

THERMOMETER CALIBRATOR

source & measurement

Model : TC-424 ***ISO-9001, CE, IEC1010***

Lutron

LUTRON ELECTRONIC

The Art of Measurement

Multi-functions

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FEATURES

* Four kinds Source output :
  1. Pt-100 source, 2. Voltage(DC mV) source.
  3. 400 ohm source , 4. Type KJRETS Temp. source .
* Four kinds measurement inputer :
  1. Pt-100 measure, 2. Voltage(DC mV) measure,
  3. 400 ohm measure , 4. Type K/J/R/E/T/S Temp. measure .
* Portable instrument for calibrating process devices.
* Four kinds Source Adjustable output.

General Specifications

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 30 mm. LCD with white backlight (ON/OFF).
Measurement	1.Type k/J/R/E/T/S Temp. , 2. Voltage (DC mV). 3. Pt-100 ohm, 4. 400 ohm .
Source	*Type k/J/R/E/T/S Temp.,* Voltage (DC mV : - 10.00 to + 110.00 mV), Pt-100 ohm , 400 ohm .
Sampling Time of Display	Approx. 1 second.
Advanced setting	* Auto power OFF management. * Set unit ℃ or ℉ .
Operating Temperature and Humidity	0 to 50 ℃. 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 2 mA.
Weight	*Meter :* 282 g/ 0.61 LB. (with cable)
Dimension	*Meter :* 198 x 68 x 45 mm
Accessories Included	* Instruction manual..... 1 PC * Hard carrying case(CA-06)..... 1 PC * (Type K source output line), AC-DUK02... 1 PC * MTL-CP424..... 1 PC
Optional Accessories	AC to DC 9V adapter. TP-01,TP-02A, TP-03, TP-04, TP-05

Electrical Specifications (23.0 ± 5 ℃)

Thermocouple

Type	Range of source / measure	Accuracy source	Accuracy measure	Resolution
K	-200.0to 1370.0 ℃	>-100℃:	>-100℃:	0.1 ℃/℉
	-328 to 2498 ℉	±(0.05 %+ 1 ℃)	±(0.07%+1.5℃)	
J	-200.0 to 1200.0 ℃	±(0.05 %+ 1.8 ℉)	±(0.07%+2.7℉)	
	-328 to 2192 ℉	<-100℃:	<-100℃:	
T	-200.0 to 400.0℃	±(0.05 %+ 2 ℃)	±(0.07%+ 2 ℃)	
	-328 to 752 ℉	±(0.05 %+ 3.6 ℉)	±(0.07%+ 3.6 ℉)	
E	-200.0 to 1000.0 ℃			
	-328 to 1832 ℉			
R	0 to 1768 ℃	**<100℃:**±(0.05% +3℃ or 5.4℉)	**<100℃:**±(0.07% +3℃ or 5.4℉)	1 ℃/ ℉
S	32 to 3214 ℉	**≧100℃:**±(0.05% +2℃ or 3.6℉)	**≧100℃:**±(0.07% +2℃ or 3.6℉)	

** input impedence : 10 ^12 ohms.*
** measure protection : DC 60 V , AC 24 V.*
* source protection : Reference CAUTION.

DC Voltage

DC Voltage		
Range of source / measure	Display Resolution	Accuracy source / measure
-10.00mV to +110.00 mV	0.01 mV	± (0.05 % + 0.03mV)

** input impedence : 10 ^12 ohms.*
** measure protection : DC 60 V , AC 24 V.*
** source protection : Reference CAUTION.*

Pt100

Pt100			
Range of source / measure	Display Resolution	Accuracy source	Accuracy measure
-200.0 to 850.0 ℃	0.1 degree	±(0.05%+0.6℃)	±(0.05%+ 1℃)
-328.0 to 1562.0 ℉	0.1 degree	±(0.05%+1.1℉)	±(0.05%+ 1.8℉)

** input impedence : 10 ^12 ohms.*
** protection : Reference CAUTION.*

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

400 Ω

400 Ω			
Range of source / measure	Display Resolution	Accuracy: source	measure
400.0 Ω	0.1 Ω	±(0.1%+ 0.4Ω)	±(0.1%+ 0.6Ω)

** input impedence : 10 ^12 ohms.*
** protection : Reference CAUTION.*
** FS : full scale*

Remark :
The above specification 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.