Handy Caliberators

Model	
Ca	ı

Description

100.0Hz

10.0KHz

-20.00mA

20.000mA

PT-100

Cu 50

s

K

Ε

J

N

R

Frequency 1.00KHz

Analog

хмт

Transducer

DC mA

RTD

TC

40 00\/

4.000V

40.00V

400.0V

40 00mA

400 0mA

Output Ranges for Caliberation (Source) Function Range Set Range Resolution

Accuracy OHM

0 to 400.0 Ohms 0.1 0.5% + 4

400.0 Ohm DCmV 100.00mV -10.00mV to 100.00mV 0.01mV DC V 5.0000V

-0.5000V to 5.5000V 1.0Hz to 110.0Hz

0.1mV 0.1Hz 0.100KHz to 1.100KHz 1 Hz 1.0KHz to 11.0KHz

0.5% + 4

0.2% + 4

0.2% + 2

0.2% +2

0.5% + 2

(>100C.)

0.5% +20

(<-100C.)

0.2% +10

(>-100C.)

0.5%+3(<600C.

Measuring Impedance: 10MOhm (nominal)<100pF

Common mode rejection ratio:50Hz or 60Hz >100dB Normal mode rejection ratio: 50Hz or 60Hz. >45dB

0.5%+2 (>600C.)

Over Voltage protection: 600Vp-p

Over Voltage protection: 600Vp-p

0.1KHz 0.2% + 2 0.01mA0.2% + 4

0 to -22 00mA

0.001mA 0.2% + 40 to 22 000mA

-200.0C. to 850.0C. 0.1C 0.5% + 6

-50.0C. to 150.0C. 0.1C 0.5% + 6-40C. to 1760C. 1C. 0.5%+3(<100C. -20C. to 1760C.

-200.0C. to 1370.0C. 0.1C. -200.0C. to 1000.0C.

-200.0C. to 1200.0C. -200.0C. to 400.0C.

-200.0C. to 1300.0C. -40C. to 1760C. 1C.

Process Meter Measurement

Accuracy, ± (% of Reading+Counts) Remarks

Resolution Range

DC Voltage Measurement

0.2% + 4

0.001V 4 000\/ 0.2% + 4

0.1V ۸00 n\/ 0.2% + 4

0.01

0.1V

0.01mA

0 1mA

DC mV Measurement 0.01mV 40 00mV 0.5% + 6 400 0mV 0.1mV 0.2% + 4

AC Voltage Measurement 0.1mV 1.0% + 4 400.0mV

> 0.001V 0.5% + 4 0.01V 0.5% + 4

> > 0.2% + 4

0.2% + 4 AC Current Measurement

conversion average value: Measuring impedance: 10MOhm(nominal), <100pF, Common mode rejection ratio: 50Hz or 60Hz>100dB Overvoltage protection: 600V p-p

Measuring Impedance: 10MOhm (nominal)

Specification are valid from 5% to 100% of amplitude

range; 400mV is only confined to manual range; AC

0.5% + 4DC Current Measurement Over Load Protection: 0.5Amp/250V fast-blow fuse Measuring Impedance: 1 Ohm

Appearance



Accuracy Remark 1mA exciting current without

accessory lead resistance

Max Output Current 5mA

Max Output Current 5mA

Square Wave 50%

Duty Cycle Ratio

5V p-p

External Power Supply 28V Max

Internal Power Supply: 15V Max

load 1K ohm at 20mA

Load: 500ohms at 20mA

accessories lead resistance

By using ITS-90 temperature

Note: The accuracy does not

include the error of internal

temperature compensation

caused by the sensor

By using Pt-100-385

Temperature without

General Specification Power Supply: 6V batteries

(4*1.5V alkaline AAA batteries or 4*1.5V Ni-MH AAA batteries) Maximum Voltage: 600Vp-p

(Maximum Voltage between all input jacks & earth ground)

30VDC (Maximum Voltage between all output jacks & earth ground) Operating Temperature: 5C. to 50C.

Operating relative Humidity: <80% RH

Storage Temperature: -10C. to Storage Humidity: < 90% RH

Size: 205*95*42mm (plus protector) Accessories: a copy of user

manual, a set of industrial test lead (with alligator) clips and two 63mA/250V fast-blow fuses

Safety: Compiled with IEC61010 (Safety standard issued by International Electro-technical commission

Option: Adaptor

Sailent Feature

Direct TC & RTD output

DC current .001mA resolution

Back Light LCD

Relative Range Selection 25% to 100% Loop Power

Direct Caliberation possible (Refer pg 51 to 57)

Automatic Power on/off function

0.01mA 40.00mA 0.5% + 4400.0mA 0.1mA 0.5% + 4

Spec. are valid from 5% to 100% of amplitude range Measuring impedance: 1 Ohms Over Load protection: 0.5Amp, 250V fast- blow fuse

Range	Resolution	Accuracy, <u>+</u> (% of R	eading+Counts)	
Resista	nce Meas	surement		Marketed B
400.00hms	0.1 Ohms	0.2% + 4		
4.000KOhms	0.001KOhms	0.2% + 4		
40.00KOhms	0.01KOhms	0.2% + 4	Open Cicuit voltage:0.4V; Guide lead resistance is excluded in the accuracy Over Voltage protection: 600V p-p	
400.0KOhms	0.1KOhms	0.2% + 4		
4.000MOhms	0.001MOhms	0.5% + 4		
40.00MOhms	0.01MOhms	1.0% + 4		
RTD Me	asureme	nt		
Pt100	-200~700C.	1C.Resolution .5%+2 Acc.	By using Pt100-385 temperature scale Measuring Current 1mA	
Cu50	-50~150C.	1C.Resolution .5%+4 Acc.	Note Attached Lead Resistance is excluded	
TC Mea	suremen	t		
R	-40 to 1760C.	0.5% + 3(<100C.) 0.5% + 2(>100C.)		
S	-20 to 1760C.		Resolution 1C	
В	400 to 1800C.	0.5% + 3(<600C.) 0.5% + 2(>600C.)		
E	-200 to 500C.	, , , , , ,	By using ITS-90 temperature scale Note The accuracy does not include the	
K	-200 to 950C.	0.5% + 2(<100C.) 0.5% + 1(>100C.)	error of internal temperature compensation	
J	-200 to 700C.		caused by a sensor. The range of internal temperature compensation sensor is ± 2C.	
Т	-200 to 400C.		_	
N	-200 to 1000C			
Frequer	cy Count	i		
50.00Hz	0.01Hz	0.1% + 3	Display Update 3 times/second (>10Hz)	
500.0Hz	0.1Hz	0.1% + 3		
5.000KHz	1Hz	0.1% + 3		
50.00KHz	0.01KHz	0.1% + 3		
100.0Hz	0.1KHz	0.1% + 3		
Diode T	est & Cor	ntinuity Test		
		lays voltage drop across de I.6V Current:<0.2mA (Typio	rvice, cal Value) Accuracy + (2% reading + 1 Count)	
Continu	ity Test Ir	ndication		
continuous A	udible tone for t	test Resistance<50 Ohms		
Open circuit	voltage: <0.45			
Short Circuit	current: 130 m	icroA typical		
Overload pro	tection: 600V pe	eak		