R&D Instrument Services

Process Calibrator – PCAL 10

Application

Ideal for calibration of thermocouples, RTDs, thermometers, transmitters, indicators, controllers, receivers, mA, V, mV, ohms, frequency measuring instruments etc.,

Features

Internal embedded electric switch. High resolution LCD screen with backlight. Fuse protection circuit to avoid damage caused by misoperation. Having both measurement and source function. Auto off operation. Portable handheld size. Light weight, easy to carry.

Process Calibrator Simulation Output Function

OUTPUT	OUT UNIT	SETTING RANGE	SETTING STEP	ACCURACY
DC.Volt.	V	0~11.00V	0.01/0.1/1	0.025%+1
DC.mV	mV	0~110.00mV	0.1/1/10	0.025%+2
Ω	Ω	20~400Ω	1/10/100	0.025%+0.3Ω
DC.mA	mA	0~24.00mA Active/Passive/Programmable	0.01/0.1/1/4	0.025%+1
TC	R	0~1700℃	1/10/100	0.1%+3
	S	0~1600℃		
	B	500~1800℃		
	K	-200~1370℃		0.1%+1
	E	-200~1000℃		
	J	-200~1200℃		
	T	-200~400℃		
	N	-200~1300℃		
RTD	Pt100	-200~850℃	1/10/100	0.025%+1
	Cu50	-50~150℃		0.025%+2
Frequency	HZ	100-10kHz	100/1000	0.3%
24V	24V mA	24V (fixed, cannot be adjusted) Current measuring: 0~24.000 mA	None	24V: 0%-20% mA Current measuring: 0.025%+4

*Note: Ω /RTD output: 0.2-3mA incitation current, can measure Constant or non-constant current resistance, the accuracy of lead resistance does not included.
TC output: The accuracy of cold-junction compensation error does not included.
24V output: can drive the output load and measure current in 24V loop.

Process Calibrator Measurement Function

MEASUREMENT	UNITS	MEASURE RANGE	RESOLUTION	ACCURACY
DC.V	V	0~30.000V	0.001V	0.025%+4
DC.mV	mV	0~150.00mV	0.01mV	0.025%+2
Ω	Ω	0~999.9Ω	0.1Ω	0.025%+2
DC.mA	mA	0~30.000mA	0.001mA	0.025%+4
TC	R	0~1700℃	1℃	0.1%+3
	S	0~1600℃		
	B	500~1800℃		
	K	-200~1370℃		0.1%+1
	E	-200~1000℃		
	J	-200~1200℃		
	T	-200~400℃		
	N	-200~1300℃		
RTD	Pt100	-200~850℃	1℃	0.025%+1
	Cu50	-50~150℃		0.025%+1
Frequency	Hz	0-10KHz	0.1%	0.1%
Range switch	mA	0-24mA 0~99900 Unit(Used for current measuring and current measurement of 24V output)	Max. 4, Min.1(related to engineering quantity)	0.025%+1-10 Based on the engineering quantity.

*Note: Ω/RTD Measurement: the accuracy of lead resistance does not included.
TC Measurement: The accuracy of cold-junction compensation error does not included.
24V Measurement: can do square root on signal.

Standard Delivery

1. Instrument : 1 no.
2. Charging Cable : 1 no.
3. Test Lead (2 wire) : 1 no.
4. User Manual : 1 no.
5. Carrying Pouch
6. Traceable Calibration Certificate

Optional

1. Accredited (NABL) Calibration Certificate as per ISO/IEC 17025 Standard

Manufacturer of
TEST BENCHES
CALIBRATION INSTRUMENTS
ISO 9001
Certified Company
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