VAR TECH®
Quality • Reliability • Economy

Temperature Calibrator
V 7221 B

Features

A source & measurement tool.
This Calibrator can be used for measurement or output (source).

- 5 Digits Display
- Source DC Current (0 ~ 30 mA).
  Measure DC mA & DCV (+/- 35 mA / 35 V),
  Span, Sawtooth / Triangle Wave
- Auto Power off
- On/off Detection
- Torch & backlight Function
- Display refresh rate: 2~3 times / second

- ➢ Maximum applied voltage at input end: 60 Vpk;
- ➢ Maximum applied current at input end: 50mA.
- ➢ Current input protection: 100mA/250V Fast FUSE
- ➢ Uncertainty includes standard uncertainty, hysteresis,
- ➢ Non-linearity, repeatability, and typical long-term
- ➢ stability over the period mentioned (K = 2)
- ➢ Input common-mode rejection: 50Hz /60 Hz > 120 db; Input serial-mode rejection: 50Hz /60 Hz > 60 db
- ➢ The temperature range of internal temperature compensated sensor RJC is -10 to 50 C. The temperature measurement accuracy at 18 to 28C is ±0.5C, and the temperature measurement accuracy at other temperature is ±1C. Cold end compensation time is 10S/ times.
- ➢ Temperature coefficient: 0.1 × basic accuracy / ℃ (temperature range <18℃ or >28℃)

ISO 9001 CE

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** All Specifications & appearances are subject to change without prior notice*

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Specifications :

II. Basic function and performance of the product (technical index)

Analog measurement function [Used within one year after calibration, 23 °C± 5 °C, 20-70% RH, accuracy=± (% set value+% reading)]

Output function	Range	Output range	Resolution	Accuracy	Remarks
DC current DCI	30mA	0.000mA~30.000mA	0.001mA	0.05%+4uA	At 20 mA, maximum load 1000Ω resistance When simulating the transmitter, the external circuit power supply is 5~28V

Other characteristics:

- Uncertainty includes standard uncertainty, hysteresis, nonlinearity, repeatability, and typical long-term stability over the period mentioned (K = 2).
- Maximum applied voltage at input end: about 30Vpk; Maximum applied current at input end: about 25mA
- The temperature range of internal temperature compensated sensor RJC is -10 to 50°C. The temperature measurement accuracy at 18 to 28°C is ±0.5°C, and the temperature measurement accuracy at other temperature is ±1°C. Cold end compensation time is 10S/ times.
- Temperature coefficient: 0.1 × basic accuracy/°C (temperature range < 18°C or > 28°C)

Input output function [Used within one year after calibration, 23°C±5°C, 20-70% RH, accuracy =+/-(% set point + reading %)]

Measurement function	Range	Measurement range	Resolution	Accuracy	Remarks
DC voltage DCV	35V	-35.000V~35.000V	0.001V	0.02%+2mV	Input resistance: approximately 1MΩ
DC current DCI	30mA	-35.000mA~35.000mA	0.001mA	0.02%+4uA	Shunt resistance: approximately 10Ω Input resistance: approximately 20Ω
Loop power supply LOOP	24 V			10%	Short circuit protection Maximum current: 22 mA Maximum input voltage: 60 V DC