

# Process Calibrator



## Features:

- Source and measure functions can be operated, and results displayed, simultaneously
- Sources and reads DC voltage and current, resistance, temperature, contact, frequency and pressure
- Accurate to 0.02%
- Simulates and reads 3 RTDs and 8 thermocouples
- Measures 2 or 3-wire RTDs
- Compatible with 32 pressure modules from 2.5kPa to 70MPa
- 24V loop power supply
- Provides 25% or 100% step output for DC current either manually or automatically
- Large 2-line LCD with white LED backlight
- User selectable auto power off

## Specifications:

READ Function	Range	Resolution	Accuracy (% rdg. + ISD)
DC Voltage	50mV	1µV	±0.02% +10
	500mV	10µV	±0.02% +2
	5V	0.1mV	±0.02% +5
	50V	10mV	±0.03% +5
DCCurrent	50mA	1µA	±0.02% +2
Resistance	500Ω	0.01Ω	±0.02% +0.1Ω
	5kΩ	0.1Ω	±0.02% +0.5Ω
Frequency	100Hz	0.1Hz	±2%
	1kHz	1Hz	±2%
	10kHz	0.1kHz	±2%
Type RT/C	-40/1760°C	1°C	1.5°C
Type ST/C	-20/1760°C	1°C	1.5°C
Type KT/C	-200/950°C	0.1°C	0.8°C
Type ET/C	-200/500°C	0.1°C	1.5°C
Type JT/C	-200/700°C	0.1°C	0.7°C
Type TT/C	-200/400°C	0.1°C	0.7°C
Type NT/C	-200/1000°C	0.1°C	0.9°C
Type BT/C	400/1800°C	1°C	1.8°C
Pt100RTD	-200/700°C	0.1°C	0.8°C
Pt1000RTD	-200/630°C	0.1°C	0.4°C
Cu50	-50/150°C	0.1°C	0.7°C

## SOURCE

Function	Range	Resolution	Accuracy (% rdg. + ISD)
DC Voltage	100mV	1µV	±0.02% +10
	1V	10µV	±0.02% +10
	10V	0.1mV	±0.02% +10
DCCurrent	20mA	1µA	±0.02% +10
Resistance	400Ω	0.01Ω	±0.02% +0.1Ω
	4kΩ	0.1Ω	±0.05% +1Ω
	40KΩ	1Ω	±0.1% +10Ω
Type RT/C	-40/1760°C	1°C	1.2°C
Type ST/C	-20/1760°C	1°C	1.5°C
Type KT/C	-200/1370°C	0.1°C	0.9°C
Type ET/C	-200/1000°C	0.1°C	0.5°C
Type JT/C	-200/1200°C	0.1°C	0.7°C
Type TT/C	-200/400°C	0.1°C	0.6°C
Type NT/C	-200/1300°C	0.1°C	0.8°C
Type BT/C	400/1800°C	1°C	1.1°C
Pt100RTD	-200/850°C	0.1°C	0.8°C
Pt1000RTD	-200/630°C	0.1°C	0.4°C
Cu50	-50/150°C	0.1°C	0.5°C
Frequency	100Hz	0.1Hz	±2%
	1kHz	1Hz	±2%
	10kHz	0.1kHz	±2%
	100kHz	1kHz	±2%
Pulse	10µs to 1000	cycle	±2%

## GENERAL

Continuity Test:	Beep at ≤50Ω
Loop Power Supply:	24V ±10%
Power Supply:	4x1.5V "AA" alkaline batteries or 4x1.2V "AA" Ni-Hi batteries
Dimensions:	245x95x42mm
Weight:	500g

## Model

VC25

## Description

Multifunction Calibrator