

# PROVA<sup>®</sup>



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## 123 Process Calibrator

- 4-20mA (1K $\Omega$  load, 24V Loop Supply)
- 0-100.00mV, 0-1.0000V, 0-12.000V
- K, J, E, T Type Thermocouples ( $^{\circ}$ C and  $^{\circ}$ F)
- Frequency 1-62500 Hz
- Easy Key-pad Operation, Easy Step, and Auto Ramp



# PROVA 123 Process Calibrator

## FEATURES :

- 4-20mA (1K $\Omega$  load, 24V Loop Supply)
- 0-100.00mV, 0-1.0000V, 0-12.000V
- K, J, E, T Thermocouples ( $^{\circ}$ C and  $^{\circ}$ F)
- Frequency 1-62500 Hz
- 0.025% Basic Accuracy
- Easy Key-pad Operation
- Easy Step and Auto Ramp Functions
- 0-20mA, 0-24mA selectable
- 1-100% Input (mA, mV, V)
- Beeper Warning when Output is Open(mA)

**Electrical Specification (23 $^{\circ}$ C  $\pm$  5 $^{\circ}$ C, 3minutes after power is on)**

**mA DC Current (1K $\Omega$  Max. Load, 24V Loop Supply)**

Range	Resolution	Accuracy
4 - 20mA, 0 - 20mA, 0 -24 mA	1 $\mu$ A	$\pm$ 0.025% $\pm$ 3 $\mu$ A

- Beeper warning when output is open and specified current output > 1mA

**mV, V DC Voltage (1mA Supply Current)**

Range	Resolution	Accuracy
0 - 100.00mV	10 $\mu$ V	$\pm$ 0.05% $\pm$ 30 $\mu$ V
0 - 10.000V	1 mV	$\pm$ 0.05% $\pm$ 3mV
0 - 1.0000V	100 $\mu$ V	$\pm$ 0.05% $\pm$ 300 $\mu$ V

- Beeper warning when output is short and specified voltage output > 10mV

**K, J, E, and T type Thermocouples ( 1 $^{\circ}$ C, 1 $^{\circ}$ F Resolution, 1K $\Omega$  Load Min. )**

Range	Accuracy	Range	Accuracy
K: -200 to 0 $^{\circ}$ C	$\pm$ 1.1 $^{\circ}$ C	K: -328 to 32 $^{\circ}$ F	$\pm$ 2.0 $^{\circ}$ F
K: 0 to 1370 $^{\circ}$ C	$\pm$ 0.8 $^{\circ}$ C	K: 32 to 2400 $^{\circ}$ F	$\pm$ 1.5 $^{\circ}$ F
J: -100 to 0 $^{\circ}$ C	$\pm$ 0.9 $^{\circ}$ C	J: -148 to 32 $^{\circ}$ F	$\pm$ 1.6 $^{\circ}$ F
J: 0 to 760 $^{\circ}$ C	$\pm$ 0.7 $^{\circ}$ C	J: 32 to 1400 $^{\circ}$ F	$\pm$ 1.2 $^{\circ}$ F
E: -100 to 0 $^{\circ}$ C	$\pm$ 0.9 $^{\circ}$ C	E: -148 to 32 $^{\circ}$ F	$\pm$ 1.6 $^{\circ}$ F
E: 0 to 700 $^{\circ}$ C	$\pm$ 0.7 $^{\circ}$ C	E: 32 to 1292 $^{\circ}$ F	$\pm$ 1.2 $^{\circ}$ F
T: -200 to 0 $^{\circ}$ C	$\pm$ 1.0 $^{\circ}$ C	T: -328 to 32 $^{\circ}$ F	$\pm$ 1.8 $^{\circ}$ F
T: 0 to 400 $^{\circ}$ C	$\pm$ 0.8 $^{\circ}$ C	T: 32 to 752 $^{\circ}$ F	$\pm$ 1.5 $^{\circ}$ F

**Frequency (1 - 125Hz, 1K $\Omega$  Load Min.)**

Range	Resolution	Accuracy
1 - 125 Hz	1 Hz	$\pm$ 0.04Hz

**604 Available Frequencies (126 - 62500Hz, 1K $\Omega$  Load Min.  $\pm$  0.01%  $\pm$  0.04Hz )**

**General Specification:**

Battery Type	9V Alkaline Battery
Display	4 x 5 Digits
Operating Temperature	0 to 50 $^{\circ}$ C ( 32 to 122 $^{\circ}$ F)
Operating Humidity	Less than 85% relative
Storage Temperature	-20 to 60 $^{\circ}$ C (-4 to 140 $^{\circ}$ F)
Storage Humidity	Less than 85% relative
Dimension	88 x 168 x 26 mm (3.46" x 6.61" x 1.03")
Weight	330 g / 11.63 oz
Accessories	Carrying case x 1 ;Users Manual x 1 ;K type thermocouple connector
	External Battery Pack (without batteries)
	9 V battery x 1 ;Test leads x 1 ;Alligator clip x 1

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