



# GPS-925 Multifunction Process Calibrator

## DESCRIPTION:

The GPS-925 Multi-Function Process Calibrator provides a feature set unmatched in high accuracy, hand-held calibrators in its price range. The GPS-925 provides the functions and accuracy associated with fixed installation, laboratory instruments, and has everything needed for virtually any calibration task. Measure and source thermocouples, RTDs, current, voltage and frequency, and source pulse trains. Arrow keys and direct numeric keypad entry plus a large backlit, menu-driven graphics display combine to provide a highly intuitive, simple yet powerful operator interface are just some of the additional features that make the GPS-925 the single, most indispensable tool available for virtually any calibration task. The GPS-925 is supplied in a tough carrying case.



## FEATURES:

- ▶ Measure and source T/Cs (10 types), RTDs (6 types), Ohms, current, voltage, frequency
- ▶ Isolated mA/V read-back circuit for complete transmitter calibration
- ▶ Built-in 24 V supply can drive 4 – 20 mA loops up to 1000 Ohms
- ▶ All source modes can be programmed with dedicated setpoints to speed calibration and linearity tests
- ▶ Highest accuracy in class to 0.01% of reading
- ▶ Store frequently-used test setups for later use
- ▶ Backlight lets you work in poor light
- ▶ Meets CE requirements and is designed to IEC1010 safety standards
- ▶ Perform fast linearity tests with auto step and auto ramp feature



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## SPECIFICATION:

Function Measure or Source	Range	Resolution	Accuracy % Reading $\pm$ counts	Notes
Voltage	0 to 100mV(Source) 0 to 10V (Source)	0.001 mV 0.0001V	0.01% $\pm$ 2 0.01% $\pm$ 2	Max. load current 1mA Max. load current 1mA
	0 to 100mV(Measure) 0 to 20V (Measure)	0.001 mV 0.0001V	0.01% $\pm$ 2 0.01% $\pm$ 2	
mA	0 to 24mA (Source) 0 to 24mA (Measure)	0.0001mA 0.0001mA	0.01% $\pm$ 2 0.01% $\pm$ 2	Max. load 800 $\Omega$
	Resistance	0 to 3200 $\Omega$ (Source) 5 to 3200 $\Omega$ (Measure)	0.01 to 0.1 $\Omega$ 0.01 to 0.1 $\Omega$	
Frequency	1Hz to 15.0 KHz (Source) 1Hz to 15.0 KHz (Measure)	0.1Hz/0.01 KHz 0.01Hz/0.1KHz	0.01% $\pm$ 2 0.01% $\pm$ 2	
	Loop Supply	24 V DC	N/A	Max. Load current 24mA
Thermocouple	J,K,T,E,L,U,N R,S,B	0.1 $^{\circ}$	to 0.8 $^{\circ}$	
		1 $^{\circ}$	to 2.4 $^{\circ}$	
RTDs	Pt100, Pt200, Pt500, Pt1000 Cu50, Cu100	0.01 $^{\circ}$ to 0.1 $^{\circ}$	to 0.8 $^{\circ}$	

Maximum voltage: 30V

Storage temperature: -20 $^{\circ}$  to 70 $^{\circ}$  C

Operating temperature: -10 $^{\circ}$  C to 55 $^{\circ}$  C

Relative humidity: 90% ( up to 30 $^{\circ}$  C), 75% ( to 40 $^{\circ}$  C), 45% ( to 50 $^{\circ}$  C)

Safety: EN61010:2001

EMC: EN:61326-1:1997 + A1:1998 + A2:2001

Battery: Internal lithium rechargeable battery, 9600mAh/8.4V

Display: 42mm X 29mm LCM, LED backlight, 99999 resolution

Size/ weight (HxWxD): 105 x 200 x 50 mm, 500g