



Multifunction Process Calibrator

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Overview Features Specifications Models and Accessories Knowledge And Information

Measurement Accuracy

Voltage DC	30.000 V	0.02%+ 2 counts (upper display)
	30.000 V	0.02%+ 2 counts (lower display)
	100.00 mV	0.02%+ 2 counts
	-10.00 mV to 75.00 mV	0.025 % + 1 count (via TC connector)
Current DC	24.000 mA	0.02%+ 2 counts
Resistance	0.0 to 400.0 Ω	0.1Ω (4-wire), 0.15Ω (2- and 3-wire)
	401 to 1500 Ω	0.5Ω (4-wire), 1Ω (2- and 3-wire)
	1500 to 3200 Ω	1Ω (4-wire), 1.5Ω (2- and 3-wire)
Frequency	2.0 to 1000.0 CPM	0.05 % + 1 count
	1.0 to 1100.0 Hz	0.05 % + 1 count
	1.00 to 10.00 kHz	0.05 % + 1 count
	Sensitivity	1 V peak-to-peak-minimum
Pressure	Accuracy from 0.025% of range using any of 29 pressure modules. (for detailed specifications refer to pressure modules in options and accessories) Modules available for differential, gauge, vacuum, absolute, dual and high pressure.	

Source Accuracy

Voltage DC	100.00 mV	0.02%+2 counts
	10.000 V	0.02%+2 counts
	-10.00 mV to 75.00 mV	0.025 % + 1 count (via TC connector)
Current DC	24.000 mA (Source)	0.02%+ 2 counts
	24.000 mA (Simulate)	0.02%+ 2 counts
Resistance	15.0 to 400.0 Ω	0.15 Ω (exc. current 0.15 to 0.5 mA), 0.1 Ω (exc. current 0.5 to 2 mA)
	401 to 1500 Ω	0.5 Ω(excitation current 0.05 to 0.8 mA)
	1500 to 3200 Ω	1 Ω(excitation current 0.05 to 0.4 mA)
Frequency	2.0 to 1000.0 CPM	0.05%
	1.0 to 1100.0 Hz	0.05%
	1.00 to 10.00 kHz	0.25%
	Waveform:	5 V p-p squarewave, -0.1 V offset

RTDs and Thermocouples

Measure Accuracy:	NI-120	0.2 °C
	PT-100 (385)	0.33 °C
	PT-100 (393)	0.3 °C
	PT-100 (JIS)	0.3 °C
	PT-200 (385)	0.2 °C
	PT-500 (385)	0.3 °C
	PT-1000 (385)	0.2 °C
	Resolution:	0.1 °C
	J:	0.7 °C
	K:	0.8 °C
	T:	0.8 °C
	E:	0.7 °C
	R:	1.8 °C
	S:	1.5 °C
	B:	1.4 °C
	L:	0.7 °C
	U:	0.75 °C
N:	0.9 °C	
Resolution	J, K, T, E, L, N, U: 0.1 °C, 0.1 °F B, R, S: 1 °C, 1 °F	

	XK	0.6°C
	BP	1.2°C
Source Accuracy:	NI-120	0.2 °C
	PT-100 (385)	0.33 °C
	PT-100 (393)	0.3 °C
	PT-100 (JIS)	0.3 °C
	PT-200 (385)	0.2 °C
	PT-500 (385)	0.3 °C
	PT-1000 (385)	0.2 °C
	Resolution:	0.1 °C
	Note:	Accuracy stated for 4-wire measurement.
	J:	0.7 °C
	K:	0.8 °C
	T:	0.8 °C
	E:	0.7 °C
	R:	1.4 °C
S:	1.5 °C	
B:	1.4 °C	
L:	0.7 °C	
U:	0.75 °C	
N:	0.9 °C	
Resolution	J, K, T, E, L, N, U: 0.1 °C, B, R, S: 1 °C	
XK	0.6°C	
BP	1.2°C	

Specifications	
Ramp Functions	Source functions: Voltage, current, resistance, frequency, temperature Ramps Slow ramp, Fast ramp, 25% step-ramp
Loop Power Function	Voltage: 24 V Accuracy: 10% Maximum current: 22 mA, short circuit protected
Step Functions	Source functions: Voltage, current, resistance, frequency, temperature Steps 25% of range, 100% of range

Environmental Specifications	
Operating Temperature	-10 °C to +55 °C
Storage Temperature	-20 °C to 71 °C
Operating Altitude	3000 m

Safety Specifications	
Agency Approvals	EN 61010-1:1993, ANSI/ISA S82.01-1994; CAN/CSA C22.2 No 1010.1:1992

Mechanical & General Specifications	
Size	130 x 236 x 61 mm
Weight	0.65 kg
Batteries	4 AA alkaline batteries
Battery Replacement	Separate battery compartment, accessible without breaking calibration seal
Side port connections	Pressure module connector, also used for remote real-time programming