

V/mA Process Calibrator

Portable/Handheld

Nagman 15+

The voltage/mA Pressure Calibrator is a handheld, battery-operated instrument that measures and sources electrical and physical parameters.

SALIENT FEATURES

Measure: DC-voltage, DC-current, frequency and continuity
 Source: DC-voltage, DC-current, simulation transmitter, frequency and pulse
 Pressure: measuring pressure, Calibrating pressure-voltage transmitter, Calibrating 2wire pressure transmitter, Calibrating pressure switch
 Manual step source and auto -step and sweeping –step source
 Measurement/source mA% display
 Measurement wave-filter function
 Measurement manual-holding function
 Pressure source auto-holding function



Typical Photo: Final Product look may vary

SPECIFICATIONS**MEASURING TECHNICAL INDICATORS**

[Applicable to within one year after calibration, 23°C±5°C, 35~70% RH, accuracy ±(%reading+%range)]

- Measurement rate: 2 times/second
- DCV measurement
 - Common Mode Rejection: 50Hz/60Hz > 120dB
 - Series Mode Rejection: 50Hz/60Hz > 60dB
- Temperature coefficient: 0.1 x specified accuracy/ °C (temperature range 5 to 18 °C or 28 to 50 °C)
- Maximum voltage applied between input terminals and COM terminals: 60Vpk
- mA terminal maximum current: 55mA
- mA terminal input protection: 100mA/250V fast fuse

Functions	Reference	Ranges	Resolution		Accuracy	Remarks
DC Voltage	200 mV	-20 to 220 mV	10 μ V		0.02 + 0.02	Input Resistance: 100 M Ω
	5 V	-0.5 to 5.5 V	0.1 mV		0.02 + 0.01	Input Resistance: 1 M Ω
	50V	-5 to 55 V	1 mV		0.03 + 0.01	
DC mA	50 mA	-4 to 55 mA	1 μ A		0.02 + 0.01	Input Resistance: 5 Ω
Frequency	500 Hz	3 to 500 Hz	0.01 Hz		± 2 digit	Input Impedance : 100 k Ω Min. Sensitivity : 3 Vp-p min. Duty Cycle : 50%
	5 KHz	3 Hz to 5 KHz	0.1 Hz			
	50 KHz	3 Hz to 50 KHz	1 Hz			
Continuity	<250 Ω	Close / open	---		---	Open Voltage: 2.5 V

OUTPUT SPECIFICATIONS

[Applicable to within one year after calibration, 23°C 5°C, 35~70% RH, accuracy $\pm$ (% set value + % range)]

- Temperature coefficient: 0.1 x specified accuracy/ °C (temperature range 5 to 18 °C or 28 to 50 °C)
- Maximum voltage applied between output terminals and ground: 30Vpk
- Maximum output current: 25mA

Functions	Reference	Ranges	Resolution	Accuracy	Remarks
DC Voltage	1000 mV	-100 to 1100 mV	10 μ V	0.02 + 0.01	Maximum output : 2 mA
	10 V	-1 to 11 V	0.1 mV	0.02 + 0.01	Maximum output : 5 mA
DC Current	20 mA	0 to 22 mA	1 μ A	0.02 + 0.02	Simulator Transmitter : 5 to 28 V Power Supply outside; 1 K Ω at 20 mA
Frequency	100 Hz	1 to 110 Hz	0.01 Hz	$\pm$ 2 count	Output voltage : 1 to 11 V _{p-p} (zero base waveform); Amplitude Accuracy : $\pm$ 10% + 0.5 V; Maximum load : >100 K Ω Duty Cycle : 50%
	1 KHz	0.1 to 1.1 KHz	1 Hz		
	10 KHz	1 to 11 KHz	0.1 KHz		
Pulse	100 Hz	1 to 100000 cycles	1 cycle	---	
	1 KHz				
	10 KHz				
Loop	24 V	---	---	$\pm$ 10%	Maximum output current : 25 mA Short circuit protected

STANDARD INCLUSIONS

- Basic Instrument
- 1.5V x 4 Nos. AAA Alkaline Batteries
- Operation Manual
- Test Leads
- Traceable Calibration Certificate

OPTIONAL (ADD-ON) ITEMS

- Calibration Certificates are issued in Accordance with our Scope as granted by NABL per ISO/IEC 17025:2017 Standards

Manufactured by



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Specifications subject to change owing to continuous development. Contact us for latest Datasheet.

NIE/TDS/Nagman 15+/0626/00