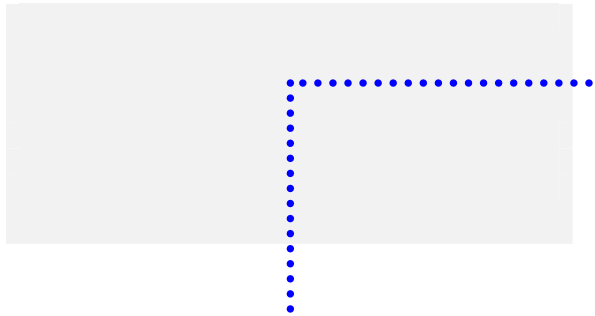


Signal



Nagman
Voltage / Milliamp Calibrator

**Portable, Handy
& Sturdy case with grip**

Basic Accuracy : $\pm 0.02\%$ F.S.

**Capability to Measure & Simulate
DC Voltages, DC Current, Frequency, Pulse & Loop**

Model

NAGMAN 15+

- Compact, Light Weight Unit with Holster
- Capability to Measure & Simulate DC Voltages, DC Current & Frequency
- 5 digits display of Measurement & 6 digits display for Simulation
- Dual LCD with white LED for backlight
- Measurement & Simulation of :
 - DC Voltages :
50 mV & 500 mV, 5 V & 50 V in Measurement Mode
100 mV, 1 V & 10 V in Simulation Mode
 - DC Current :
50 mA in Measurement Mode
20 mA in Simulation Mode
 - Frequency :
100 Hz, 1 KHz & 10 KHz in Measurement Mode
100 KHz, 1 KHz, 10 KHz & 100 KHz in Simulation Mode
- Capability to perform Continuity Test & provide Loop Supply (24 V) for Transmitters



SPECIFICATIONS

MEASURING FUNCTIONS

Functions	Range / Type	Ranges	Resolution	Accuracy	Remarks
DC Voltage	-20 to 220 mV	10 μ V	0.02 + 0.02	-20 to 220 mV	Impedance approximately 100 M Ω
	-0.5 to 5.5 V	0.1 mV	0.02 + 0.01	-0.5 to 5.5 V	Impedance approximately 1 M Ω
	-5 to 55 V	1 mV	0.03 + 0.01	-5 to 55 V	
DC mA	50 mA	-4 to 55 mA	1 μ A	0.02 + 0.01	Impedance : 5 Ω
Frequency	500 Hz	3 to 500 Hz	0.01 Hz	± 2 count	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 Circuit Voltage : about 2.5 V

OUTPUT FUNCTIONS

Functions	Range / Type	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 + 0.01	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	± 2 count	Output voltage : 1 to 11 V (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 DELIVERY

- Voltage / Milliamp Calibrator - Model Nagman 15+
- 1.5V x 4 Nos. Alkaline Batteries
- Operation Manual
- Test Leads
- Traceable Calibration Certificate

OPTIONAL

- Calibration Certificate from NABL Accredited – as per ISO/IEC 17025:2005 Laboratory

Product of

Nagman Instruments & Electronics (P) Ltd.

- Comprehensive Calibration Solutions (Standards / Systems / Packages / Software / Services)
Chennai – 600 123. INDIA.



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