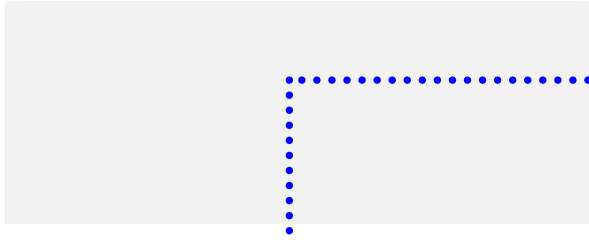
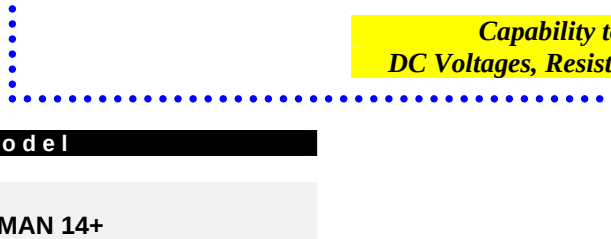


Signal



Basic Accuracy : $\pm 0.02\%$ Reading



Nagman Temperature Calibrator

**Portable, Handy, Easy to carry
& Sturdy Case with grip**

**Capability to Measure & Simulate
DC Voltages, Resistances, Thermocouples & RTD**

Model

NAGMAN 14+

- Compact, Light Weight Unit with Holster
- Capability to Measure & Simulate DC Voltages, Resistances, Thermocouples and RTD
- 5 digits display of Measurement & 6 digits display for Simulation
- Dual LCD with white LED for backlight
- Measurement & Simulation of :

Thermocouple types :

R, S, B, E, K, J, T, N, L & U

RTD Types :

PT100, Pt200, Pt500, Pt1000, Cu10 & Cu50

Resistances :

500 Ω & 5 K Ω in Measurement Mode
400 Ω & 4 K Ω in Simulation Mode

DC Voltages :

50 mV & 500 mV in Measurement Mode
100 mV & 1000 mV in Simulation Mode



Manufactured by

Nagman Instruments & Electronics (P) Ltd.

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SPECIFICATIONS

MEASURING FUNCTIONS

Functions	Reference	Ranges	Resolution	Accuracy	Remarks	
DC Voltage	50 mV	-5 to 55 mV	1 μV	0.02 + 0.02	Input Resistance 100 MΩ	
	500 mV	- 50 to 550 mV	10 μV	0.02 + 0.01		
Resistance (Ohm)	500 Ω	0 to 550 Ω	0.01 Ω	0.05 + 0.02		
	5 KΩ	0 KΩ to 5.5 KΩ	0.1 Ω	0.05 + 0.02		
Thermocouple	R	0 to 1767°C	1°C	0 to 500°C : 1.8°C		
	S	0 to 1767°C		500 to 1767°C : 1.5°C		
	K	-100 to 1372°C	0.1°C	-100 to 0°C : 1.2°C		
				0 to 1372°C : 0.8°C		
	E	-50 to 850°C		-50 to 0°C : 0.9°C		
				0 to 850°C : 1.5°C		
	J	-60 to 1120°C		-60 to 0°C : 1°C		
				0 to 1120°C : 0.7°C		
	T	-100 to 400°C		-100 to 0°C : 1°C		
				0 to 400°C : 0.7°C		
	N	-200 to 1300°C		-200 to 0°C : 1.5°C		
				0 to 1300°C : 0.9°C		
	B	600 to 1820°C	1°C	600 to 800°C : 2.2°C		
				800 to 1000°C : 1.8°C		
				1000 to 1820°C : 1.4°C		
	L	-60 to 900°C	0.1°C	-60 to 0°C : 0.7°C		
				0 to 900°C : 0.5°C		
	U	-100 to 600°C	0.1°C	-100 to 0°C : 0.7°C		
				0 to 600°C : 0.5°C		
RTD	Pt100 385	-200 to 800°C	0.1°C	-200 to 0°C : 0.5°C		
				0 to 400°C : 0.7°C		
				400 to 800°C : 0.8°C		
	Pt1000 385	-200 to 630°C		-200 to 100°C : 0.8°C		
				100 to 300°C : 0.9°C		
				300 to 630°C : 1.0°C		
	Pt200 385	-200 to 630°C		-200 to 100°C : 0.8°C		
				100 to 300°C : 0.9°C		
				300 to 630°C : 1°C		
	Pt500 385	-200 to 630°C				
Cu10	-100 to 260°C	1.8°C				
Cu50	-50 to 150°C	0.7°C				
Continuity	500 Ω	≤50 Ω round	0.01 Ω		Excitation Current approx.. 1 mA	

OUTPUT FUNCTIONS

Functions	Reference	Ranges	Resolution	Accuracy	Remarks
DC Voltage	100 mV	-10 to 110 mV	1 μ V	0.02 + 0.01	Maximum Output : 0.5 mA Maximum Output : 2 mA
	1000 mV	-100 to 1100 mV	10 μ V	0.02 + 0.01	
Resistance	400 Ω	0 to 400 Ω	0.01 Ω	0.02 + 0.02	
	4 K Ω	0 K Ω to 4 K Ω	0.1 Ω	0.05 + 0.025	
Thermocouple	R	0 to 1767°C	1°C	0 to 100°C : 1.5°C	ITS-90
				100 to 1767°C : 1.2°C	
	S	0 to 1767°C		0 to 100°C : 1.5°C	
				100 to 1767°C : 1.2°C	
	K	-200 to 1372°C	0.1°C	-200 to -100°C : 0.6°C	
				-100 to 400°C : 0.5°C	
				400 to 1200°C : 0.7°C	
				1200 to 1372°C : 0.9°C	
	E	-200 to 1000°C		-200 to 100°C : 0.6°C	
				-100 to 600°C : 0.5°C	
				600 to 1000°C : 0.4°C	
	J	-200 to 1200°C		-200 to -100°C : 0.6°C	
				-100 to 800°C : 0.5°C	
				800 to 1200°C : 0.7°C	
	T	-250 to 400°C		-250 to 400°C : 0.6°C	
				-200 to -100°C : 1.0°C	
	N	-200 to 1300°C		-100 to 900°C : 0.7°C	
				900 to 1300°C : 0.8°C	
	B	600 to 1820°C	1°C	600 to 800°C : 1.5°C	
				800 to 1820°C : 1.1°C	
	L	-200 to 900°C	0.1°C	-200 to 0°C : 0.7°C	
				0 to 900°C : 0.5°C	
	U	-200 to 600°C	0.1°C	-200 to 0°C : 0.7°C	
				0 to 600°C : 0.5°C	
RTD	Pt100 385	-200 to 800°C	0.1°C	-200 to 0°C : 0.3°C	
				0 to 400°C : 0.5°C	
				400 to 800°C : 0.8°C	
	Pt200 385	-200 to 630°C		-200 to 100°C : 0.4°C	
				100 to 300°C : 0.5°C	
				300 to 630°C : 0.7°C	
	Pt500 385	-200 to 630°C		-200 to 100°C : 0.2°C	
				100 to 300°C : 0.5°C	
				300 to 630°C : 0.7°C	
	Pt1000 385	-200 to 630°C		-200 to 100°C : 0.8°C	
				100 to 300°C : 0.9°C	
				300 to 630°C : 1.0°C	
	Cu10	-100 to 260°C		1.8°C	
	Cu50	-50 to 150°C		0.6°C	

* Accuracy expressed as $\pm$ (percentage of reading + percentage of range)

STANDARD DELIVERY

- Temperature Calibrator – Model : Nagman 14+
- 1.5V 'AAA' Alkaline Batteries (4 Nos.)
- Operation Manual
- Test Leads
- Traceable Calibration Certificate

OPTIONAL

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