

Signal

# Nagman Thermocouple Calibrator

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

**Basic Accuracy :  $\pm 0.05\%$  F.S.**

**Capability to Measure & Simulate  
Voltage & Thermocouple Readings**

## Model

**NAGMAN 02**

- Compact, Light Weight Unit with Holster
- Selectable Temperature Output Readings (in °C / °F)
- Measurement & Simulation of Thermocouple types R, S, B, E, K, J, T & N and Voltage (100 mV)

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## SPECIFICATIONS

### MEASURING FUNCTIONS

Input	Types	Input range	Resolution	Accuracy	Remarks
Voltage	100 mV	-10 to 110 mV	0.01 $\mu$ V	$\pm 0.05\%$ measured value + 30 $\mu$ V	Impedance 1M $\Omega$
Thermocouple	R	-40 to 1760 $^{\circ}$ C	1 $^{\circ}$ C	$\pm 0.05\%$ measured value $\pm 3^{\circ}$ C ( $\leq 100^{\circ}$ C)	Impedance 1M $\Omega$ ITS-90
	S	-20 to 1760 $^{\circ}$ C	1 $^{\circ}$ C	$\pm 0.05\%$ measured value $\pm 2^{\circ}$ C ( $> 100^{\circ}$ C)	
	B	400 to 1800 $^{\circ}$ C	1 $^{\circ}$ C	$\pm 0.05\%$ measured value $\pm 3^{\circ}$ C (400 to 600 $^{\circ}$ C) $\pm 0.05\%$ measured value $\pm 2^{\circ}$ C ( $> 600^{\circ}$ C)	
	E	-200 to 1000 $^{\circ}$ C	0.1 $^{\circ}$ C	$\pm 0.05\%$ measured value $\pm 2^{\circ}$ C ( $\leq -100^{\circ}$ C) $\pm 0.05\%$ measured value $\pm 1^{\circ}$ C ( $> -100^{\circ}$ C)	
	K	-200 to 1370 $^{\circ}$ C	0.1 $^{\circ}$ C		
	J	-200 to 1200 $^{\circ}$ C	0.1 $^{\circ}$ C		
	T	-200 to 400 $^{\circ}$ C	0.1 $^{\circ}$ C		
N	-200 to 1300 $^{\circ}$ C	0.1 $^{\circ}$ C			

### OUTPUT FUNCTIONS

Output	Types	Output range	Resolution	Accuracy	Remarks
Voltage	100 mV (Low)	-10.00 to 110.00 mV	0.01 mV	$\pm 0.05\%$ set value + 30 $\mu$ V	Max. output current $\pm 5$ mA
	1000 mV (High)	-100.00 to 1100.00 mV	0.1 mV	$\pm 0.05\%$ set value + 0.3 mV	
Thermocouple	R	-40 to 1760 $^{\circ}$ C	1 $^{\circ}$ C	$\pm 0.05\%$ set value $\pm 3^{\circ}$ C ( $\leq 100^{\circ}$ C)	ITS-90
	S	-20 to 1760 $^{\circ}$ C	1 $^{\circ}$ C	$\pm 0.05\%$ set value $\pm 2^{\circ}$ C ( $> 100^{\circ}$ C)	
	B	400 to 1800 $^{\circ}$ C	1 $^{\circ}$ C	$\pm 0.05\%$ set value $\pm 3^{\circ}$ C (400 to 600 $^{\circ}$ C) $\pm 0.05\%$ set value $\pm 2^{\circ}$ C ( $> 600^{\circ}$ C)	
	E	-200 to 1000 $^{\circ}$ C	0.1 $^{\circ}$ C	$\pm 0.05\%$ set value $\pm 2^{\circ}$ C ( $\leq 100^{\circ}$ C) $\pm 0.05\%$ set value $\pm 1^{\circ}$ C ( $> 100^{\circ}$ C)	
	K	-200 to 1370 $^{\circ}$ C	0.1 $^{\circ}$ C		
	J	-200 to 1200 $^{\circ}$ C	0.1 $^{\circ}$ C		
	T	-200 to 400 $^{\circ}$ C	0.1 $^{\circ}$ C		
N	-200 to 1300 $^{\circ}$ C	0.1 $^{\circ}$ C			

#### STANDARD DELIVERY

- Thermocouple Calibrator – Model : Nagman 02
- 9V Alkaline Battery
- Operation Manual
- Test Leads
- Traceable Calibration Certificate

#### OPTIONALS

- 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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