

Signal

NEW

Nagman

Multifunction Process Calibrator

**Portable Instrument in a
Hard / Sturdy Carry Case**

Basic Accuracy : $\pm 0.025\%$ F.S.

*Capability to Measure & Simulate
Voltages, Current, Resistance, Thermocouple & RTD*

Model

MFC 40

- Compact & Portable
- Capability to Measure & Simulate DC Voltages, DC Current, Resistance, Thermocouples & RTDs
- 128 x 64 Graphic Display with backlight
- Measurement & Simulation of :
 - DC Voltages (200 mV, 2000 mV, 20 V)
 - DC Current (50 mA)
 - Resistance (400 & 4000 Ω)
 - Thermocouples (K, J, R, B, N & S)
 - RTDs (Pt100, Pt200, Pt500, Pt1000)

Reference Junction Compensation :
Internal Automatic : From 0°C to 50°C
External Adjustable : From 0°C to 60°C

In/Out Data Memory : 20 Values can be stored manually

RS-232 Computer Interface : Provided



(P.T.O)

SPECIFICATIONS

MFC40

DC CURRENT

Measurement

Range	Resolution	Accuracy	I/P impedance
0 to 50mA	0.001	0.025% FS	<140 Ω at 1mA

Simulation

Range	Resolution	Accuracy
0 to 50 mA	0.001	0.025%FS

DC VOLTAGE

Measurement

Range	Resolution	Accuracy	I/P impedance
0 to 200mV	0.001	0.025% FS	Rin > 10 MΩ
0 to 2000 mV	0.01	0.025% FS	Rin > 10 MΩ
0 to 20V	0.0001	0.025% FS	Rin > 10 MΩ

Simulation

Range	Resolution	Accuracy
0 to 200mV	0.001	0.025% FS
0 to 2000 mV	0.01	0.025% FS
20V	0.0001	0.025% FS

RESISTANCE

Measurement

Range	Resolution	Accuracy
400 Ω	0.001Ω	0.025% FS
4000 Ω	0.0001Ω	0.025% FS

Simulation

Range	Resolution	Accuracy
400 Ω	0.001Ω	0.025% FS
4000 Ω	0.0001Ω	0.025% FS

TEMPERATURE - RESISTIVE PROBES (IEC Std. 60751)

Measurement

Probe	Range	Resolution	Accuracy
Pt100	-100°C to 800°C	0.01°C	0.05% FS
Pt200	- 100°C to 600°C	0.01°C	0.05% FS
Pt500	- 100°C to 530°C	0.01°C	0.05% FS
Pt1000	- 100°C to 650°C	0.01°C	0.05% FS

Simulation

Probe	Range	Resolution	Accuracy
Pt100	0°C to 800°C	0.01°C	0.05% FS
Pt200	0°C to 600°C	0.01°C	0.05% FS
Pt500	0°C to 530°C	0.01°C	0.05% FS
Pt1000	0°C to 650°C	0.01°C	0.05% FS

TEMPERATURE – THERMOCOUPLES (IEC Std. 60584)

Measurement

Type	Range	Resolution	Accuracy
K	-100°C to 1260°C	0.01°C	0.1% FS
J	-100°C to 1200°C	0.01°C	0.1% FS
R	150°C to 1760°C	0.01°C	0.1% FS
B	920°C to 1820°C	0.01°C	0.1% FS
N	0°C to 1300°C	0.01°C	0.1% FS
S	170°C to 1760°C	0.01°C	0.1% FS

Simulation

Type	Range	Resolution	Accuracy
K	0°C to 1260°C	0.01°C	0.1% FS
J	0°C to 1200°C	0.01°C	0.1% FS
R	150°C to 1760°C	0.01°C	0.1% FS
B	950°C to 1820°C	0.01°C	0.1% FS
N	0°C to 1300°C	0.01°C	0.1% FS
S	170°C to 1300°C	0.01°C	0.1% FS

STANDARD DELIVERY

- Multifunction Process Calibrator – MFC40
- Rechargeable Battery with Power Adaptor
- Operation Manual
- Test Leads
- Traceable Calibration Certificate

OPTIONAL

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

Instrument Dimension (L x B x H) : 330 x 235 x 125 mm • Instrument Weight : 2.5 Kg. (approx.)

Manufactured by

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