



M2004 Series Digital Calibrator



Features on M2004

- Mobile data logging - no computer required while taking measurements
- Computer configuration, calibration, and data logging application (app)
- One (1) fixed sensor and one (1) interchangeable accessory sensor (pressure or temperature)
- Backlight
- Battery life display (0 to 100%)
- USB communication
- Wide variety of ranges available: -14.5 psi to 3000 psi
- Min/Max pressure capture
- RTD (Temperature) accessory sensor option
- Compound, Absolute, and Differential pressure sensors
- Protective blue boot
- Optional pressure fittings and hand pump kit

Digital Calibrator

Meriam M2004 is a portable pressure instrument with flexible features to meet many of your everyday pressure measurement needs. This device features an easy and intuitive user interface with convenient pressure connections.

- M2004 can use a second sensor with the MTS Series of Tethered Modules (Pressure & Temperature)
- 316SS media isolated pressure sensors to suit a wide range of applications
- Common features include damping to stabilize fluctuating pressure signals and data logging for easy measurement capture
- Luer Lock Fittings included
- This device ships with calibration certificate traceable to NIST

Applications

- Very low differential pressure measurement for ventilator instrument testing
- Sterilizer vacuum measurements
- Non-invasive blood pressure instruments
- Facilities testing (medical gases)
- Leak testing for low pressure gas systems
- Pressure drop monitoring across filters
- Monitoring vacuum on condensers and pumps
- CPAP and BIPAP testing
- 316SS compatible with most media
 - Liquids
 - Medical gases
 - Pharmaceuticals
 - Biological fluids
- Refrigeration units, freezers, incubators, cryogenics, therapy baths, lab baths



Specifications

M2004 Digital Calibrator

Pressure Accuracy

- 0.025 % full scale

Pressure ranges: Non-Isolated

Compatible with clean, dry, non-corrosive, gas media

- 0 to 15, 30, 100 psi Absolute
- 1 to 1, -5 to 5, -14.5 to 15, 30, 50, 100 psi Differential
- 1 to 1, -5 to 5, -14.5 to 15, 30, 50, 100 psi Compound

Pressure ranges: Media-Isolated

Media compatible with 316SS

- 0 to 15, 30, 100, 1000 psi Absolute
- 1 to 1, -5 to 5, -14.5 to 15, 30, 50, 100, 300, 500 psi Differential
- 14.5 to 15, 30, 50, 100, 300, 500, 1000, 3000 psi Compound

Measurement Units

- Offering over 30 measurement units including psi, mmHg, inH₂O, mbar, and user defined units

Display Resolution

- 6 digits

Temperature Accuracy

- IEC 60751 PT100 class A
- Tolerance = $\pm (0.15 + 0.002 |t|)$ °C
- Measurement range: -50 °C to 250 °C

Temperature Specifications

- Storage: -40 °C to 60 °C (-40 °F to 140 °F)
- Operating: -20 °C to 50 °C (14 °F to 122 °F)

Dimensions with boot

- Length 9.8 in (248.9 mm) from manifold to end of boot
- Width 5.2 in (132.1 mm) at widest point with boot
- Thickness 2.3 in (58.4 mm)

Connections

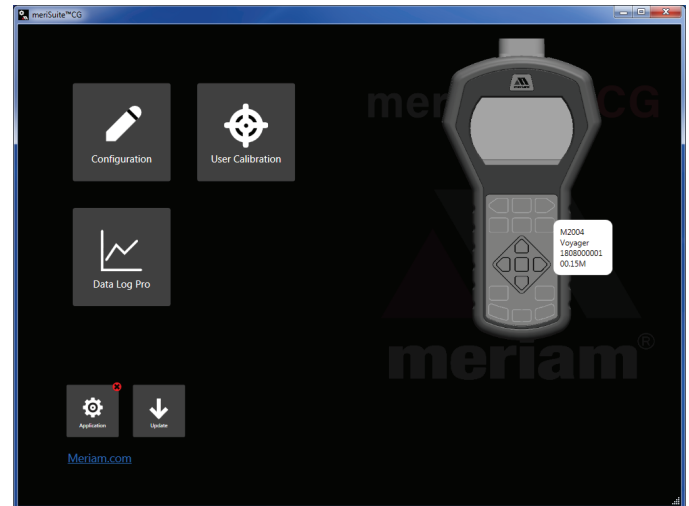
- 1/8" Female NPT 316SS (Luer Lock Fittings included)
- USB
- Meriam Tethered Sensor (MTS) Port

Power

- 4 AA batteries

Certifications 

meriSuite™ CG



Since our meriSuite CG app is included with the M2004, you can configure M2004 and MTS to streamline your daily measurement tasks.

Configure and download data logs, select measurement units and configure user defined units, turn on and off device functions, and calibrate your device using your local measurement standards.

Add Data Log Pro to the M2004 to expand data logging capabilities to 128 log files or 100,000 data points. Modify data log options and settings using Data Log Pro tab in meriSuite CG.

Meriam Tethered Sensors (MTS)

Expand the capabilities of the M2004 by adding an MTS to measure a second pressure or a temperature.

Choose any available pressure sensor type and range and connect your accessory MTS using the included 2 meter cable. Use meriSuite CG to configure how measurements are shown on the display.

All the functions of the M2004 are available to the MTS. The MTS is available in pressure and RTD modules.

MTS devices are available as temperature measurement standards as well. These are built as RTD instruments using PT100 Class A probes for best temperature accuracy.