WESTERN ENTERPRISES
a Scott Fetzer company

M2004 Series
Smart Manometer

meriam®

Meriam Tethered Sensor (optional accessory)

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.

- 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
- This device ships with calibration certificate traceable to NIST
- M2004 can use a second sensor with the MTS Series of Tethered Modules (Pressure & Temperature)

Features on M2004

- Mobile data logging - no computer required while taking measurements
- One (1) fixed sensor
- Backlight with 4 levels: Off, Low, Medium, High
- Battery life display (0 % to 100 %)
- USB communication
- Measure ranges up to: 3000 psi compound, 1000 psi absolute, and 500 psi differential
- Min/Max pressure capture
- meriSuite application for configuration, calibration, and data logging
- RTD (Temperature) accessory sensor option
- Protective blue boot
- Optional pressure fittings, hand pump kit, and carrying case

Meriam Tethered Sensors (MTS)

Expand the capabilities of the M2004 by adding an MTS to measure a second pressure or a PT100 Class A RTD temperature.

Choose any available pressure or temperature sensor type and range and connect your accessory MTS using the included 1 meter cable.

This is an interchangeable sensor giving extra flexibilty to your measurement needs.

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
- Non-invasive blood pressure instruments
- Refrigeration units, freezers, incubators, cryogenics, therapy baths, lab baths
- Pressure relief valve testing
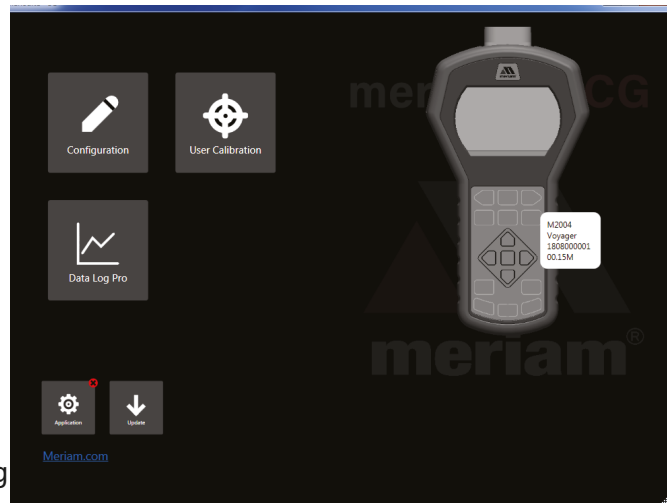- Hold function to snapshot a pressure reading

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meriSuite CG

Our meriSuite CG application is included with the M2004 so you can configure M2004 and MTS to streamline your daily measurement tasks.

Configure the Smart Manometer and sensors

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 and MTS 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.

Specifications M2004 Smart Manometer

Pressure Accuracy	• ± 0.020% Full Scale + 0.005% of Reading
Pressure ranges (select one) 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
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, kPa, mmHg, inH_2O, mbar, and user defined units
Display Resolution	• Up to 6 digits depending on pressure units
Temperature Specifications	• Storage: –20 °C to 70 °C (–4 °F to 158 °F) • Operating: –10 °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 - rated to 30psi) • USB • Meriam Tethered Sensor (MTS) Port
Power	• 4 AA batteries
MTS RTD Specifications	Temperature Probe Accuracy • IEC 60751 PT100 class A • Tolerance = ± (0.15 + 0.002 |t|) °C • Probe measurement range: -50 °C to 250 °C

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