



# M2004 Series Smart Manometer



## M2004 Features

- Mobile data logging - no computer required while taking measurements
- Computer configuration, calibration, and data logging application
- One (1) fixed sensor and one (1) interchangeable accessory sensor (pressure or temperature)
- Backlight
- Battery life display ( 0 % to 100 %)
- USB communication
- 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

## Smart Manometer

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

- Pressure Transmitter Calibration
- Leak testing for low pressure gas systems
- Pressure drop monitoring across filters
- Monitoring vacuum on condensers and pumps
- CPAP and BIPAP testing

## 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 sensor type and range and connect your accessory MTS using the included 1 meter cable.

All the functions of the M2004 are available to the MTS.

\*\* Customized hard-carrying case included with the purchase of a M2004 and one or more MTS sensor options.



# meriSuite CG

## meriSuite CG application

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 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

## MTS RTD

### Temperature Probe Accuracy

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

## M2004 Series Smart Manometer

# Specifications

## M2004 Smart Manometer

### 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
- 5 to 5, -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<sub>2</sub>O, mbar, and user defined units

### Display Resolution

- 6 digits

### 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)
- USB
- Meriam Tethered Sensor (MTS) Port

### Power

- 4 AA batteries