M2001 Series

Rotary Gas Meter Tester

Shown with Brass push-to-read valve

Meriam M2001 makes drop testing Rotary (Natural) Gas Meters easy. Hardware options protect the M2001 from one sided overpressure. The unit comes with either a brass push-to-read valve or stainless 3 valve manifold.

- Displays live DP reading and at the end of the test it will display a true average of the DP.
- Unit will give you the total time elapsed and you can toggle between the minimum and maximum pressures.
- 316SS media isolated pressure sensors to suit a wide range of applications
- Features damping to stabilize fluctuating pressure signals.
- This device ships with calibration certificate traceable to NIST
- **Intrinsically Safe options available**

Features on Rotary Gas Meter Tester

- Mobile data logging - no computer required while taking measurements-available with optional MTS
- 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 with optional MTS; The fixed sensors offers select ranges in differential pressure
- Min/Max pressure capture
- meriSuite application for configuration, calibration, and data logging application
- RTD (Temperature) accessory sensor option with MTS
- Protective red boot
- Optional pressure fittings, and hand pump kit

Meriam Tethered Sensors (MTS)

Expand the capabilities of the M2001 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 flexibility to your measurement needs.

Certifications

Ex ia IIC T4 Ga
Class I, Div. 1 Groups A,B,C,D, T4
Class I, Zone 0

meriSuite CG

Our meriSuite CG application is included with the M2001 so you can configure M2001 and MTS to streamline your daily measurement tasks.

Configure the Rotary Gas Meter Tester 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 M2001 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 - available with optional MTS.

Specifications M2001 Rotary Gas Meter Tester

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- available with optional MTS ▪ **-1 to 1, -5 to 5, -14.5 to 15 psi Differential w/ Brass push-to-read valve** ▪ 30, 50, 100 psi Differential - available with optional MTS ▪ -1 to 1, -5 to 5, -14.5 to 15, 30, 50, 100 psi Compound - available with optional MTS
Media-isolated	▪ Media compatible with 316SS ▪ 0 to 15, 30, 100, 1000 psi Absolute - available with optional MTS ▪ **-1 to 1, -5 to 5, -15 to 15 psi Differential with Stainless steel 3 valve manifold** ▪ 30, 50, 100, 300, 500 psi Differential - available with optional MTS ▪ -5 to 5, -14.5 to 15, 30, 50, 100, 300, 500, 1000, 3000 psi Compound - available with optional MTS
Measurement Units	▪ Offering over 30 measurement units including psi, kPa, mmHg, inH_2O, mbar, and user defined units - available with optional MTS
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 USB ▪ Meriam Tethered Sensor (MTS) Port ▪ USB
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