WESTERN ENTERPRISES
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Meriam.com

# M2003 Series
## Smart Manometer

meriam®

Meriam Tethered Sensor (optional accessory)



Two Sport Aviation calibration references in one portable device. Meriam's M2003 Altimeter/Indicated Air Speed Tester accurately measures pressure from 0 to 30 psi or 0 to 100 psi relative to absolute zero.

But that's not all. In Pressure mode, the M2003 displays pressure in a variety of Customary and SI measurements units. Selecting the ALT or IAS switches the M2003 to Altitude mode for us in checking altimeter instrumentation. Customary or SI measurement units for Altitude and Indicated Air Speed are selectable by the customer.

A time leak test function is standard for Pressure mode. Customers set the test period and the test. The M2003 displays Minimum, Maximum, and live measurements. The leak rate per minute upon completion.

**\*Instrinscally Safe options available**

## Meriam Tethered Sensors (MTS)

Expand the capabilities of the M2000 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.

## Features on M2003

- Altitude displayed in feet or meters
- Indicated Air Speed in MPH, KNOTS, KM/H
- Corrections for Altitude and Sea Level
- Backlight and 4 levels: Off, Low, Med, High
- Battery charge display (0 to 100%)
- Min/Max pressure capture
- RTD (Temperature) accessory sensor option with MTS
- Compound, Absolute, and Differential pressure sensors-available with optional MTS
- Protective red boot
- Optional pressure fittings and hand pump kit

## Applications

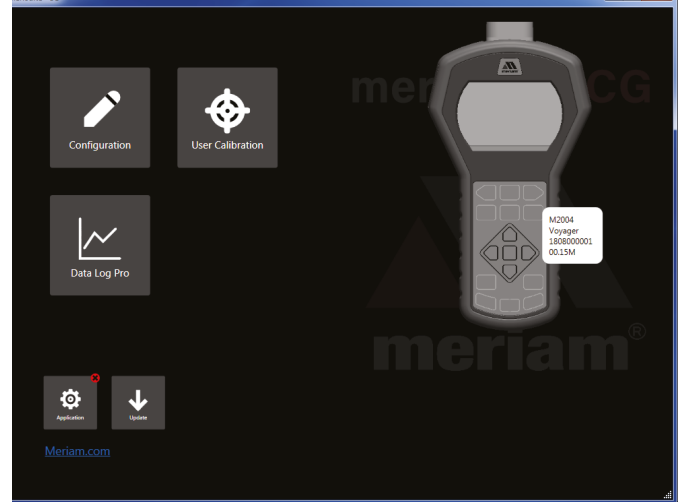- Testing and calibration of altimeter and air speed instruments

## meriSuite CG

Our meriSuite CG application is included with the M2003 so you can configure M2003 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 M2003 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  M2003 Altimeter IAS Tester

| | |
|---|---|
| Altitude | ▪ -2000.0 ft to 36,000 ft<br>▪ -609.6 m to 10972.8 m |
| Indicated Air Speed | ▪ 0 knots to 660 knots<br>▪ 0 to 760 mph<br>▪ 0 km/h to 1223 km/h |
| Pressure Accuracy | ▪ ± 0.020% Full Scale + 0.005% of Reading |
| Pressure Ranges (select one) Non-Isolated | ▪ Compatible with clean, dry, non-corrosive, gas media<br>▪ 0 to 30 psi and 0 to 100 psi Absolute<br>▪ Additional ranges available with MTS |
| Pressure Ranges: Media-isolated | ▪ Media compatible with 316SS<br>▪ 0 to 30, 100 psi Absolute<br>▪ Additional ranges available with MTS |
| Measurement Units | ▪ Offering over 30 measurement units including psi, kPa, mmHg, inH$_2$O, 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)<br>▪ 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<br>▪ Width 5.2 in (132.1 mm) at widest point with boot<br>▪ Thickness 2.3 in (58.4 mm) |
| Connections | ▪ 1/8" Female NPT 316SS USB<br>▪ Meriam Tethered Sensor (MTS) Port<br>▪ USB |
| Power | ▪ 4 AA batteries |
| MTS RTD Specifications | Temperature Probe Accuracy<br>▪ IEC 60751 PT100 class A<br>▪ Tolerance = ± (0.15 + 0.002 \|t\|) °C<br>▪ Probe measurement range:  -50 °C to 250 °C |

**M30004 REL-18568 (2005)**