



M202 Precision Absolute Manometer Calibrator

Meriam's model M202 Precision Absolute Manometer brings calibration bench accuracy to a portable, handheld unit. This combination of accuracy and fluid compatibility makes the M202 ideal for environmental, test or real-time process measurements of pressure relative to absolute zero. General Purpose (G.P.) and Intrinsically Safe (I.S.) models are available.

The M202 includes features for minimum and maximum (Min/Max) value capture, tare readings and user selectable engineering units. A selectable altitude function allows users to enter site altitude above sea level in order to display local barometric pressure or barometric pressure corrected to sea level. User referenced altitude (referenced to map or trig markers) or altitude based on US Standard Atmosphere of 1962 can be selected for display. Using the altitude function with the Min/Max and Tare features makes the M202 very useful also as a surveyor's tool.

Applications Include

- Measure changes in altitude testing
- Measuring pressures relative to absolute zero

M203 Altimeter Indicated Air Speed Tester



The M203 Altimeter / Indicated Air Speed Tester accurately measures pressure from 0 – 900 mm Hg (17.40 PSI) relative to absolute zero. Selecting the "ALT / IAS" unit from Program Mode converts the M203 to Altitude Mode for use in checking altimeter instrumentation. Pressing the ALT / IAS button toggles the M203 to Indicated Air Speed Mode for checking air speed instrumentation. Pressing the ALT / IAS button again returns to the Altitude display. English or S.I. units for Altitude and Indicated Air Speed are user selectable.

A timed leak test function is standard for Pressure, Altitude and Indicated Air Speed modes. The user sets the test period and starts the tests. The M203 displays Minimum, Maximum and instant values during the test period and then the leak rate per minute upon completion. Other features include Minimum / Maximum value capture, selectable damp rate, back light, programmable auto-off timer and record function. Four "AA" alkaline batteries provide more than 100 hours of continuous use.

Accuracy

- 0 - 17.403 PSIA (0 - 900.00 mm Hg Abs)
- -2000.0 to +36,000.0 Feet (-609.6 to +10,973.0 Meters)
- 0 - 496.4 Knots (0 - 571.3 MPH, 0 - 919.4 km/h)



M200LS Lab Standard Smart Manometer

Meriam's M200LS Lab Standard Smart Manometer offers the best available pressure measurement accuracy in a portable, handheld format. The NIST traceable accuracy is typically $\pm 0.01\%$ of F.S. and is independent of temperature effect over an operating temperature range of 59°F to 86°F. Pressure ranges from 28" H₂O F.S. to 500 PSIG F.S. are available.

M2 pressure sensors are available to measure gauge, differential, absolute or vacuum pressure. The display can read out in any of eleven pressure units or can be linearly scaled for special user units. An adjustable damping feature minimizes the effects of pulsating pressures. A Min/Max function captures the extremes of pulsating or varying pressure signals and a hold function can freeze the display at any point of interest. Auto Record documents up to 240 readings for future recall.

Accuracy

- Accuracy of $\pm 0.25\%$ Full Scale (independent of temperature effect)
- Pressure ranges from 10" H₂O F.S. to 3000 PSIG F.S.



MFT4000 CE and 4010 IS Multi Function Modular Calibrator / HART® Communicator

The MFT 4000 Calibrator is a base unit for calibration work with selected NIST traceable sensor modules and an integral voltage/current meter. The MFT 4010 Calibrator with HART® is a base unit for modules and full device specific HART communications. The MFT incorporates Quick Cal displays, HART PV and AO along with MFT's NIST traceable measurements. Combined with a documenting memory which stores up to 200 HART configuration files and over 100 calibration results, this an indispensable calibration tool.

Features Include

- Modules for: Differential, gauge, vacuum and absolute pressures. Temperature, and voltage/current.
- Accommodates three modules at any time. Voltage and current meter is integral to the base unit. All HART field devices can be configured, polled and trimmed using HART.