



# Model M203

Altimeter / Indicated Air Speed Tester



## Two Sport Aviation Calibration References in ONE Handheld!

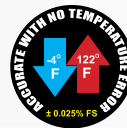
Meriam Process Technologies' M203 Altimeter / Indicated Air Speed Tester accurately measures pressure from 0 - 900 mm Hg (17.40 PSI) relative to absolute zero. But that's not all!

In Pressure Mode, the M203 displays pressure in a variety of English and S.I. engineering units. 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



Pressure & Altitude:  $\pm 0.02\%$  F.S. (F.S. = 900 mm Hg Abs)  
 Indicated Air Speed:  $\pm 0.028\%$  F.S. (F.S. = 900 mm Hg Abs)

The accuracy statements above include the combined affects of linearity, repeatability, hysteresis and temperature over the operating range of  $-4^{\circ}$  to  $+122^{\circ}$  F ( $-20^{\circ}$  to  $+50^{\circ}$  C). A certificate of traceability to NIST is included with each M203 product.



## EPI / THE EMBEDDED PRESSURE INSTRUMENT



The EPI™ is a fully compensated instrument capable of measuring applied pressures and providing an accurate and fully characterized digital output. The Meriam M203 Altimeter / Indicated Air Speed Tester, as well as other pressure products from Meriam, are powered by the EPI™. This ensures you are getting a highly-accurate device capable of  $\pm 0.025\%$  FS or better including all effects of linearity, hysteresis, repeatability and temperature over specified operating temperature range. NIST traceable certification is standard. The EPI™ provides true 14 samples per second data rate of accurate pressure readings.

**Meriam Process Technologies; 10920 Madison Avenue, Cleveland, OH 44102**



# PRODUCT SPECIFICATIONS

## Altimeter / Indicated Air Speed Tester



### MODEL NUMBER M203-AI0017

#### Specification

Range & Resolution	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) <i>* Note: the barometric pressure value at the instant the ALT / IAS button is activated will determine the maximum indicated air speed value.</i>
Pressure & Altitude Accuracy	(includes certificate of traceability to NIST) ± 0.02% of F.S. (FS = 17.403 PSIA) <i>Equivalentents:</i> ± 7 feet at sea level ± 10 feet at 10,000 feet ± 24 feet at 35,000 feet
Air Speed Accuracy	±0.028 % F.S. (F.S. = 17.403 PSIA) <i>Equivalentents:</i> ± 0.5 knots at 144 knots ± 0.1 knots at 470 knots
Temperature	Operating: -4° to 122°F (-20° to 50°C) Storage: -40° to 140°F (-40° to 60°C)
Units	Pressure: in Hg, mm Hg, PSI, mBar, Bar, kPa, Torr Altitude: Feet, Meters Air Speed: Knots, MPH, km/hr
Pressure Limit	77 PSIA (4000 mm Hg Abs - about 5 atmospheres)
Power	Four (4) "AA" alkaline batteries for 100+ hours of continuous operation
Media Compatibility	Fluids compatible with 316ss.
Display	2 line x 16 alphanumeric characters, back light, contrast adjustment
Connections	1/8" female NPT (female), 316ss.
Enclosure	6.9"L x 3.8"W x 2.3"H case with soft protective boot, 14 ozs.
Leak Test	User selects time period. Display shows Minimum, Maximum and instantaneous values during test period, then shows leak per minute upon completion.
Record Function	Document up to 240 readings, automatically or manually). Saved readings can be recalled on display at any time.
Field Recalibration	Two re-zeroing methods provide convenient field recalibration
Approvals	CE compliant, ROHS compliant



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