



AIRPRO® MICROMANOMETER INSTRUMENTS

MOBILE APP, FEATURE SETS, AND MICROMANOMETER

AirPro® Micromanometer Instruments are rugged, compact, configurable and highly accurate measurement devices featuring a Micromanometer (AP800), Mobile Application Software, and Feature Sets (Basic, Advanced and Professional).

AirPro Micromanometer Model AP800 measures static and differential pressures with seamless connection to smart devices, utilizing Bluetooth® Low Energy (BLE). Data is shown on an integrated display on the instrument while simultaneously being communicated wirelessly, in real-time, to the AirPro Mobile Application Software running on your mobile Android or iOS handheld device. Instrument features are enabled remotely based on user preference and subscription level.

Applications

- + HVAC commissioning and troubleshooting
- + Testing and balancing
- + Pitot tube duct traverses
- + Static pressure measurements
- + Differential pressure measurements

Features and Benefits

- + Calculates velocity when used with a pitot tube
- + Auto zeros pressure sensor upon instrument startup
- + Barbed pressure ports to securely attach tubing
- + High contrast display eases viewing in dimly lit areas
- + Measure differential and static pressures from -15 to +15 in. H₂O (-3735 to +3735 Pa)
- + Long life rechargeable Li-ion battery reduces cost of ownership
- + Calibration certificate included



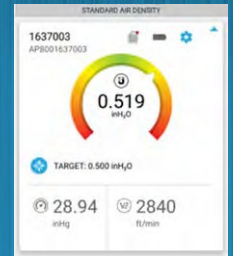
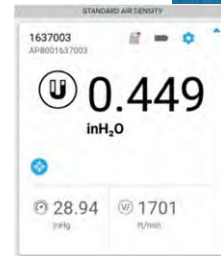
AIRPRO MOBILE (MODEL AP-MOBILE) APPLICATION SOFTWARE

The AirPro Mobile software supports both Android or iOS smart devices and is available in three levels of performance – Basic, Advanced and Professional.



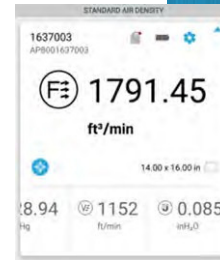
Basic:

- + Free download from App Store and Google Play
- + Auto-connect to the instrument
- + Remotely display instrument measurements
- + Set target values
- + View multiple measurements simultaneously
- + Supports multiple languages
- + Display measurements in Imperial or metric units



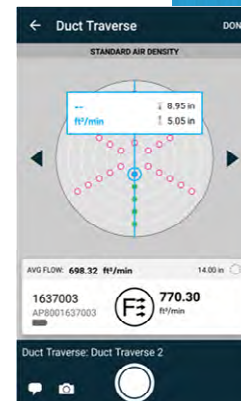
Advanced – Includes Basic Functionality Plus:

- + Subscription-based feature set
- + Connect up to 2 instruments for simultaneous, real-time display and data logging
- + Perform flow rate calculations based on user-input duct size or K-factor
- + Log measurements to smart device
- + Export data with comments and photos for report generation



Professional - Includes Basic and Advanced Functionality Plus:

- + Subscription-based feature set
- + Connect up to 6 instruments for simultaneous, real-time display and data logging
- + Built in duct traverse workflow supporting both Equal Area and log-Tchebycheff test methods
- + Supports an optional SD card for use in long- or short-term unattended data logging applications



| Function | AirPro Feature Sets | | |
|-----------------------------------------------------------------|---------------------|--------------------------------|------------------------------------|
| | Basic | Advanced (1 Year/Long-Term) | Professional (1 Year/Long-Term) |
| Display Multiple Measurements Simultaneously | X | X | X |
| Supports Multiple Languages | X | X | X |
| Configure For Imperial or Metric Units of Measurements | X | X | X |
| Calculate Pitot Probe Velocity | X | X | X |
| Standard or Actual Velocity Calculation | X | X | X |
| Max # of Instruments Connected to AirPro Mobile Simultaneously | 1 | 2 | 6 |
| Volumetric Flow Rate Calculation (Kf or Pitot Probe) | | X | X |
| Statistics | | X | X |
| Data Logging | | X | X |
| Export Data | | X | X |
| Enable Utilization of Instruments SD Card Slot for Data Storage | | | X |
| Graphing | | | X |
| Duct Traverse Application | | | X |
| Online Access to Calibration Certificates | | | X |

AIRPRO MICROMANOMETER MODEL AP800 AND ACCESSORIES

Model AP800 Includes:

Instrument, calibration certificate, quick start guide, universal AC/DC adapter, battery, service and registration cards.



Carrying Case

- 800534 Small carrying case; capable of holding 1 meter, 1 probe, 3 extensions plus accessories
- 800535 Large carrying case; capable of holding 2 meters, 2 probes, 3 extensions plus accessories



Static Pressure Probes and Tubing Kit

- 800533 Static Pressure Probes and Tubing Kit; contains two static pressure probes and two 4 ft. (1.2 m) lengths of tubing



Pitot Probes

- 634634000 Pitot probe (5/16" (8 mm) diameter) - 12" (30 cm)
- 634634001 Pitot probe (5/16" (8 mm) diameter) - 18" (46 cm)
- 634634002 Pitot probe (5/16" (8 mm) diameter) - 24" (61 cm)
- 634634003 Pitot probe (5/16" (8 mm) diameter) - 36" (91 cm)
- 634634005 Pitot probe (5/16" (8 mm) diameter) - 60" (152 cm)
- 634634004 Telescoping pitot probe - 8" to 38" (20 cm to 96 cm)



Miscellaneous

- 800530 External battery charger
- 634650002 Duct plug, 3/8" (9.5 mm) diameter - 1000 pieces
- 634650003 Duct plug, 3/8" (9.5 mm) diameter - 5000 pieces



SPECIFICATIONS

AIRPRO® MICROMANOMETER INSTRUMENTS MODEL AP800 AND ACCESSORIES

Static / Differential Pressure

| | |
|--------------------|-------------------------------------------------------------------------------|
| Range ¹ | -3735 to +3735 Pa, -28.0 to +28.0 mm Hg, (-15 to +15 in. H ₂ O) |
| Accuracy | ±1% of reading ±0.01 mm Hg, ±1 Pa (±0.005 in. H ₂ O) |
| Resolution | 0.1 Pa, 0.01 mm Hg (0.001 in. H ₂ O) |

Velocity (Pitot Probe)

| | |
|-----------------------|----------------------------------------|
| Range ² | 1.27 to 78.7 m/s (250 to 15500 ft/min) |
| Accuracy ³ | 10.16 m/s (±1.5% at 2000 ft/min) |
| Resolution | 0.1 m/s (1 ft/min) |

Barometric Pressure (AP800)

| | |
|----------|-------------------------------------------------|
| Range | 517.1 to 930.9 mm Hg (20.36 to 36.65 in. Hg) |
| Accuracy | ±2% of reading |

Instrument Temperature Range

| | |
|-----------|---------------------------|
| Operating | 5 to 45°C (40 to 113°F) |
| Storage | -20 to 60°C (-4 to 140°F) |

Display interface

Organic light-emitting diode (OLED)
10 mm (0.4 in.) digit height

External Meter Dimensions

53 mm x 181 mm x 40 mm (2.1 in. x 7.1 in. x 1.6 in.)

Meter Weight

Weight with batteries: 0.20 kg (0.45 lbs)

Power Requirements

| | |
|------------------------------------------|----------------------------|
| AirPro Li-ion battery | 3500 mAh |
| AC Adapter (TSI part number 800531 only) | |
| Input | 50 to 60 Hz, 90 to 240 VAC |
| Output | 5 VDC, 2A |

Battery Life

32+ hours

¹ Overpressure range = 360 mmHg, 48 kPa (7 psi 190 in. H₂O).

² Pressure velocity measurements are not recommended below 5 m/s (1,000 ft/min).

³ Accuracy is a function of converting pressure to velocity. Conversion accuracy improves when actual pressure values increase.

Specifications are subject to change without notice.

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