



UNDERSTANDING, ACCELERATED

AirPro™

# 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. H<sub>2</sub>O (-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.



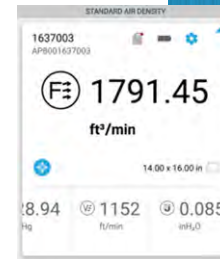
## Basic:

- + 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



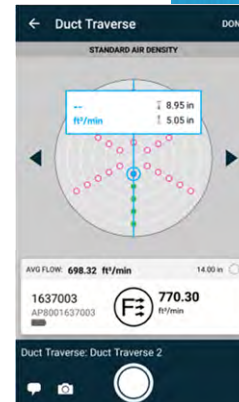
## Advanced - Includes Basic Functionality Plus:

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

#### Velocity (Pitot Probe)

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

#### Barometric Pressure (AP800)

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

#### Instrument Temperature Range

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

#### Display interface

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

#### External Meter Dimensions

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

#### Meter Weight

Weight with batteries: 0.45 lbs (0.20 kg)

#### Power Requirements

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

#### Battery Life

32+ hours

<sup>1</sup> Overpressure range = 7 psi (190 in. H<sub>2</sub>O, 360 mmHg, 48 kPa).

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

<sup>3</sup> 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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<b>USA</b>	<b>Tel:</b> +1 800 874 2811	<b>India</b>	<b>Tel:</b> +91 80 67877200
<b>UK</b>	<b>Tel:</b> +44 149 4 459200	<b>China</b>	<b>Tel:</b> +86 10 8219 7688
<b>France</b>	<b>Tel:</b> +33 1 41 19 21 99	<b>Singapore</b>	<b>Tel:</b> +65 6595 6388
<b>Germany</b>	<b>Tel:</b> +49 241 523030		