

Thermo-Anemometers

Features:

MODELS 9535 and 9535-A

- Simultaneously measure and data log several ventilation parameters using a single probe with multiple sensors
- Measure air velocity and temperature
- Calculate volumetric flow and actual/standard velocity
- Data log over 12,700 samples and 100 test IDs
- LogDat2™ downloading software included

MODELS 9545 and 9545-A

- Measure relative humidity and calculate dew point and wet bulb temperature
- Display up to three measurements simultaneously
- Data log over 12,700 samples and 100 test IDs
- LogDat2™ downloading software included

MODELS 9555 and 9555-A

- Designed to measure air velocity, temperature and relative humidity
- Available with a differential pressure sensor
- Displays up to 5 measurements simultaneously
- Optional "smart" plug-in probes, including CO₂ and rotating vane probes
- Calculations include air flow, heat flow, turbulence, wet bulb and dew point temperature
- Manual or continuous data logging of up to 26,500 samples and 100 test IDs
- TrakPro™ and LogDat2™ software included
- Bluetooth® printer capability



Specifications:

Air Velocity, Models 9535, -A & 9545, -A

Range: 0 to 6,000 fpm (0 to 30 m/s)
 Accuracy: ±3% rdg. or ±3 fpm (0.015 m/s)
 Resolution: 1 fpm (0.01 m/s)

Model	Description	Price
9535	Thermo-anemometer w/ straight probe	\$1190
9535-A	Thermo-anemometer w/ articulated probe	\$1295
9545	Thermo-anemometer w/ straight probe	\$1589
9545-A	Thermo-anemometer w/ articulated probe	\$1788
9555	Thermo-Anemometer/Datalogger w/ 964	\$2595
9555-A	Thermo-Anemometer/Datalogger w/ 966	\$2958
960	AV/Temp. Probe, straight	\$858
962	AV/Temp. Probe, articulated	\$1057
995	100mm Rotating Vane Probe	\$725
792	Surface Temperature Probe	\$167
794	Air Temperature Probe	\$167
980	Indoor Air Quality Probe w/ CO ₂	\$2121
982	Indoor Air Quality Probe w/ CO ₂ & CO	\$2519

Air Velocity, Models 9555, 9555-A w/ 960 & 962

Range: 0 to 9,999 fpm (0 to 50 m/s)
 Accuracy: ±3.0% rdg. ±3 fpm (±0.15 m/s), whichever is greater (≥ 30 fpm)
 Resolution: 1 fpm (0.01 m/s)

Air Velocity, Models 9555, 9555-A w/ Pitot Tube

Range: 250 to 15,500 fpm (1.27 to 78.7 m/s)
 Accuracy: ±1.5% at 2,000 fpm (10.06 m/s)
 Resolution: 1 fpm (0.01 m/s)

Air Velocity, Models 9555, 9555-A w/ 995

Range: 50 to 6,000 fpm (0.25 to 30 m/s)
 Accuracy: ±1% rdg. or ±4 fpm (0.02 m/s)
 Resolution: 1 fpm (0.01 m/s)

Volumetric Flowrate, All models

Range: Function of max. air velocity, pressure, duct size, and K factor

Duct Size, All models

Range: 1 to 250" in increments of 0.1" (1 to 635 cm in increments of 0.1 cm)

Temperature, Models 9545, -A & 9555, -A w/ 964, 966, 980, 982

Range: 14 to 140°F (-10 to 60°C)
 Accuracy: ±0.5°F (±0.3°C)
 Resolution: 0.1°F (0.1°C)

Temperature, Models 9535, -A & 9555, -A w/ 960 & 962

Range: 0 to 200°F (-18 to 93°C)
 Accuracy: ±0.5°F (±0.3°C)
 Resolution: 0.1°F (0.1°C)

Temperature, Models 9555, 9555-A w/ 995

Range: 32 to 140°F (0 to 60°C)
 Accuracy: ±0.5°F (±0.3°C)
 Resolution: 0.1°F (0.1°C)

Relative Humidity, Models 9545, -A & 9555, -A w/ 995 964, 966, 980, 982

Range: 0 to 95% RH
 Accuracy: ±3% RH
 Resolution: 0.1% RH

Carbon Monoxide w/ Probe Model 982

Range: 0 to 500 ppm
 Accuracy: ±3% rdg. or ±50 ppm, whichever is greater
 Resolution: 0.1 ppm

Carbon Dioxide, Models 9555, 9555-A w/ 980 & 982

Range: 0 to 5000 ppm
 Accuracy: ±3% rdg. or ±3 ppm, whichever is greater
 Resolution: 1 ppm

Static/Differential Pressure, Models 9555, 9555-A

Range: -15 to +15 in.H₂O (-3735 to +3735 Pa, or -28.0 to +28.0 mmHg)
 Accuracy: ±1% rdg. ±0.005 in.H₂O (±1 Pa or ±0.01 mmHg)
 Resolution: 0.001 in.H₂O (1 Pa, 0.01 mmHg)

Barometric Pressure

Range: 2.036 to 36.648 inHg (5.17.15 to 930.87 mmHg)
 Accuracy: ±2% rdg.

General (all models)

Logging Interval: 1 second to 1 hour
 Time Constant: User selectable
 Power Supply: 4 x 1.5V AA size batteries
 Meter Dimensions: 3.3 x 7.0 x 1.8" (84 x 178 x 44 mm);
9555: 3.8 x 8.3 x 2.1" (9.7 x 21.1 x 5.3 cm)
 Meter Weight: 0.6 lb (0.27 kg); **9555:** 0.8 lbs. (0.36 kg)
 Probe Dimensions: 40" (101.6 cm) L x 0.28" (7.0 mm) dia.
 Articulating Probe: 7.8" (19.7 cm) L x 0.38" (9.5 mm) dia.

Multi-Function Meters/Dataloggers

The **435** is designed to accept a wide variety of probes depending upon your application. For basic HVAC checks, temperature and humidity have been integrated into the new thermal probe. Flow speed, volume flow, humidity and air temperature can easily be measured in one sequence. The 2.4" diameter vane probe is ideally suited for integrated measurements at registers. For duct measurements, a 0.6" vane probe is available. Pitot tubes are ideal for higher air velocities. A differential pressure probe is integrated into the **435-3** and **435-4** for this purpose.

For important IAQ measurements, the unique IAQ probe measures CO₂, relative humidity and room air temperature in order to evaluate a room air quality plus absolute pressure. The degree of air velocity or draftiness in any room can easily be determined with the turbulence probe. Determine the true illumination of those low lit areas that affect working conditions with the lux probe.

Wireless probes offer many advantages over traditional cable or integrated probes. Up to three wireless probes can be read and displayed at once from up to 65 feet away. The optional wireless module can be installed by the user at any time.

Model 435-1 is the basic model delivering laboratory-level accuracy, with toolbox toughness and versatility. It also allows the user to print out data with date and time for convenient and fast documentation on-site with the optional infrared printer. Timed interval printing from 1 minute to 24 hours permits longterm printing.

Model 435-2, in addition to the features of **Model 435-1**, is able to store up to 10,000 readings then analyze them via the included software. **Model 435-3** is the basic model with integrated differential pressure measurement. While **Model 435-4** features both differential pressure measurement and advanced data analysis functions.



Specifications:

TEMPERATURE (Type K T/C)

Range: -328 to 2498°F

Resolution: 0.1°F

Accuracy: ±0.5°F: -76 to 140°F; ±0.5% rdg.: rest of range

TEMPERATURE (NTC Sensor)

Range: -40 to 300°F

Resolution: 0.1°F

Accuracy: ±0.4°F: -13 to 170°F; ±7°F: -40 to -13°F & 160 to 212°F; ±0.5% rdg.: rest of range

HUMIDITY (Capacitive Sensor)

Range: 0 to 100% RH

Resolution: 0.1% RH

VELOCITY (Vane Probes)

Range: 0 to 12000 fpm

Resolution: 2 fpm (60 vane); 20 fpm (18 vane)

VELOCITY (Hot Wire Probes)

Range: 0 to 4000 fpm

Resolution: 4 fpm

CO₂

Range: 0 to 10,000 ppm

Resolution: 1 ppm

ABSOLUTE PRESSURE

Range: 0 to 800" H₂O

Resolution: 0.04" H₂O

DIFFERENTIAL PRESSURE (435-3/-4)

Range: 0 to 10" H₂O

Accuracy: ±0.008" H₂O: 0 to 0.8" H₂O; ±1% rdg.: r.o.r.

Resolution: 2" H₂O

LUX (435-2/-4)

Range: 0 to 100,000 lux

Resolution: 1 lux

Model	Description	Price
0560.4351	435-1 Multi-function Meter	\$809
0563.4352	435-2 Multi-function Meter	\$1037
0560.4353	435-3 Multi-function Meter	\$1281
0563.4354	435-4 Multi-function Meter	\$1530

Description	Model	Price
IAQ Probe measures CO ₂ (0 to 10,000ppm), humidity (0 to 100%), temperature (32 to 122°F), & barometric pressure (240 to 460"H ₂ O).	0632.1535	\$1371



Thermal Velocity Probe w/ built-in temperature (-4 to 158°F) & humidity (0 to 100%RH) measurement. Telescopic handle extends to 29". Air flow range: 0 to 400 fpm.	0635.1535	\$934
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Vane Probe 0.6" diam., telescopic handle extends to 35". Range: 118 to 8000 fpm.	0635.9535	\$822
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Vane Probe 2.4" diam., telescopic handle extends to 36". Range: 50 to 4000 fpm.	0635.9335	\$873
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Hot Wire Probe 0.3" diam., telescopic handle extends to 32". Range: 0 to 4000 fpm.	0635.1025	\$795
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Absolute Pressure Probe Range: 0 to 800"H ₂ O	0638.1835	\$697
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Air Probe rugged NTC. Range: -58 to 302°F	0613.1712	\$165
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Model	Description	Price
0554.0190	Wireless Module	\$79
0554.0549	Infrared Printer & Interface	\$486
0516.0435	Service Case for Meter & Probes	\$395

Description	Model	Price
Surface Probe w/ spring Type K thermocouple for uneven surfaces. Range: -76 to 572°F.	0602.0393	\$227



Pipe Wrap Probe for pipe diameter 0.02 to 2.6" w/ replaceable measuring head. Type K T/C. Range: -76 to 270°F.	0602.4592	\$350
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Clamp Probe measures temperature of pipes 0.6 to 1" in dia. Range: -58 to 212°F.	0602.4692	\$126
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Penetration Probe Waterproof immersion probe, Type K T/C. Range: -76 to 750°F.	0602.1293	\$79
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IAQ Probe comfort level probe for turbulence measurement. Ranges: 0 to 1000 fpm; 0 to 120°F. Telescopic handle extends to 32".	0628.0109	\$1424
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Lux Probe for measuring light intensity.	0635.0545	\$692
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Humidity Probe measures temperature (-4 to 160°F) and humidity (0 to 100% RH)	0636.9735	\$663
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