



Anemometers



Model TA440

Thermal Anemometers Models TA440, TA430

The Model TA440 and TA430 are like having multiple meters for the price of one, yet they are simple to operate. Purchase instruments with a straight or articulated probe—all in one compact package.

Features and Benefits

- Accurate air velocity measurement
- Simultaneously measures temperature and velocity
- Displays up to three measurements simultaneously
- Measures humidity (TA440)
- Articulated probe versions available
- Calculates volumetric flow, and actual/standard velocity
- Data logging and LogDat2™ downloading software included

Applications

- HVAC system performance
- Commissioning
- Plant maintenance
- Measures air velocity and temperature at grilles and louvers
- Critical environment certification
- Duct traverses

Accurate. Reliable. Every Time.



Anemometers

Thermal Anemometers

Models TA440 and TA430

Specifications

Models TA430 and TA440

Velocity

Range 0 to 30 m/s (0 to 6,000 ft/min)
Accuracy^{1&2} $\pm 3\%$ of reading or ± 0.015 m/s (± 3 ft/min), whichever is greater
Resolution 0.01 m/s (1 ft/min)

Duct Size

Dimensions 1 to 635 cm in increments of 0.1 cm
(1 to 250 inches in increments of 0.1 in.)

Volumetric Flow Rate

Range Actual range is a function of velocity, and duct size

Temperature

Range -10 to 60°C (14 to 140°F)
Accuracy³ ± 0.3 °C (± 0.5 °F)
Resolution 0.1°C (0.1°F)

Relative Humidity (TA440 only)

Range 0 to 95% RH
Accuracy⁴ $\pm 3\%$ RH
Resolution 0.1% RH

Wet Bulb Temperature (TA440 only)

Range 5 to 60°C (40 to 140°F)
Resolution 0.1°C (0.1°F)

Dew Point (TA440 only)

Range -15 to 49°C (5 to 120°F)
Resolution 0.1°C (0.1°F)

Instrument Temperature Range

Operating (Electronics) 5 to 45°C (40 to 113°F)
Operating (Probe) -10 to 60°C (14 to 140°F)
Storage -20 to 60°C (-4 to 140°F)

Data Storage Capabilities

Range 12,700+ samples and 100 test IDs

Logging Interval

1 second to 1 hour

Time Constant

User selectable

External Meter Dimensions

8.4 cm x 17.8 cm x 4.4 cm (3.3 in. x 7.0 in. x 1.8 in.)

Meter Weight with Batteries

0.27 kg (0.6 lbs.)

Meter Probe Dimensions

Probe Length 101.6 cm (40 in.)
Probe Diameter of Tip 7.0 mm (0.28 in.)
Probe Diameter of Base 13.0 mm (0.51 in.)

Articulating Probe Dimensions

Articulating Section Length 16.26 cm (6.4 in.)
Diameter of Articulating Knuckle 9.5 mm (0.38 in.)

Power Requirements

Four AA-size batteries or AC adapter

	TA430, TA430-A	TA440, TA440-A
Velocity	•	•
Temperature	•	•
Flow	•	•
Humidity, wet bulb, dew point		•
Probe	Straight or -A articulated	Straight or -A articulated
Variable time constant	•	•
Manual data logging	•	
Auto save data logging		•
Statistics	•	•
Review data	•	•
LogDat2 downloading software	•	•
Free Certificate of Calibration	•	•

¹ Temperature compensated over an air temperature range of 5 to 65°C (40 to 150°F).

² The accuracy statement begins at 0.15 m/s through 30 m/s (30 ft/min through 6,000 ft/min).

³ Accuracy with instrument case at 25°C (77°F), add uncertainty of 0.03°C/°C (0.05°F/°F) for change in instrument temperature.

⁴ Accuracy with probe at 25°C (77°F). Add uncertainty of 0.2% RH/°C (0.1% RH/°F) for change in probe temperature. Includes 1% hysteresis.

Specifications subject to change without notice.

AIRFLOW Instruments, TSI Instruments Ltd.

Lancaster Road, Cressex Business Park, High Wycombe, Buckinghamshire, HP12 3QP, England

UK Tel: +44 149 4 459200 E-mail: info@airflowinstruments.co.uk

France Tel: +33 491 95 21 90 E-mail: tsifrance@tsi.com

Germany Tel: +49 241 523030 E-mail: tsigmbh@tsi.com

Sweden Tel: +46 8 595 13230 E-mail: tsiab@tsi.com

Contact your local AIRFLOW Distributor or visit our website www.airflowinstruments.co.uk for more detailed specifications.