

TA 430 & TA 440

Features and Benefits:

- Simultaneously measures temperature and velocity
- Displays up to three measurements
- TA 440 measures humidity
- Articulated probe versions available
- Calculates volumetric flow and actual / standard velocity
- Data logging and LogDat2™ downloading software included

Airflow TA 430 and TA 440 are like having multiple meters, yet are simple to operate.

Specifications:



		Metric	Imperial
Velocity	Range	0 to 30 m/sec	0 to 6,000 ft/min
	Resolution	0.01 m/sec	1 ft/min
	Accuracy ^{1&2}	± 0.015 m/sec or ± 3% of reading, whichever is greater	± 3 ft/min
Duct Dimensions		1 to 635 cm in increments of 0.1 cm	1 to 250 in in increments of 0.1 in
Volumetric Flow Rate		Actual range is a function of velocity, and duct size	
Temperature	Range	-10 to 60°C	14 to 140°F
	Resolution	0.1°C	0.1°F
	Accuracy ³	± 0.3°C	± 0.5°F
Relative Humidity TA 440 only	Range	0 to 95% RH	
	Resolution	0.1% RH	
	Accuracy ⁴	± 3% RH	
Wet Bulb Temperature TA 440 only	Range	5 to 60°C	40 to 140°F
	Resolution	0.1°C	0.1°F
Dew Point TA 440 only	Range	-15 to 49°C	5 to 120°F
	Resolution	0.1°C	0.1°F
Operating Temperature	Electronics	5 to 45°C	40 to 113°F
	Probe	-10 to 60°C	14 to 140°F
Storage Temperature		-20 to 60°C	-4 to 140°F
Data Storage		12,700+ samples and 100 test IDs	
Logging Interval		1 second to 1 hour; time constant user selectable	
External Dimensions		8.4 x 17.8 x 4.4 cm	3.3 x 7.0 x 1.8 in
Probe Length		101.6 cm	40 in
Probe Diameter at tip		7 mm	0.28 in
Probe Diameter at base		13 mm	0.51 in
Articulating Probe Section Length		16.26 cm	6.4 in
Diameter Articulating Knuckle		9.5 mm	0.38 in
Weight with batteries		0.27 kg	0.6 lbs
Power Requirements		Four AA sized batteries or AC adaptor	



Associated Instrument Repairs

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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/sec through 30 m/sec (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