



INFORMATION & SPECIFICATIONS DATA SHEET

TEMPERATURE & PROCESS INSTRUMENTS INC

VT-200 Series Thermo-Anemometers Hot-Wire or Vane Style Probes with Datalogging

The New VT-200 Series Mini Air thermo-anemometers are a portable, compact digital meter designed for simplicity and easy one hand operation. The VT-200 Series features Hot-Wire or Vane Style interchangeable probes, datalogging is standard to store up to 8,000 measurement points, measure air velocity and temperature simultaneously. Choose from 6 models, each model comes with either a Hot-Wire or Vane style probe, (2) PT Temperature Channels and Voltage/Current Module to read process signals.



Features

- ▶ 6 Models to Choose from Hot-Wire or Vane Style Interchangeable Probes
- ▶ Measure Air Velocity and Temperature
- ▶ Datalogging Standard Store Up to 8,000 Measurement Points
- ▶ Pt100 RTD Temperature Sensor inside the probe
- ▶ Reliable and Accurate and Easy to Use
- ▶ Large ICE BLUE Backlight Display
- ▶ IP54 Housing
- ▶ Minimum, Maximum and Hold Function
- ▶ Optional 4 Channel Thermocouple Module with Type J, K or T Input
- ▶ Optional Data-logging Software Available

VT-200 Series Common

Specifications Conformity: Electro-magnetically compatibility (norm NF EN 61326-1)
Power Supply: 4, 1.5V Alkaline batteries
Automatic Shut Off: Programmable to 120 minutes
Working Environment: Neutral Gas
Working Temperature: 32 to 122°F (0 to 50°C)

Storage Temperature: 0 to 176°F (-18 to 80°C)
Dimensions: 5.8" x 3" x 1.3"
Weight: 6.7 ounces
Display: Graphic display: 128x128 pixels, 50 x 54 mm, Blue backlight
Housing: Shock-proof ABS: IP54
Keypad: Metal Coated : 5 keys

Air Velocity Specifications Models VT-200-F, VT-200-TF Hot Wire Thermo-Anemometers

Air Sensor Type: Thermistance with a negative temperature coefficient

Ambient temperature Sensor: Pt100 RTD 1/3 Din

Range and Accuracy Table

Measuring units	Measuring range	Accuracy	Resolutions
Air Velocity			
m/s, fpm, Km/h	0.3 to 3 m/s	±3% of reading ±0.03 m/s	0.01 m/s
	0.1 m/s 3.1 to 35 m/s	±3% of reading ±0.1 m/s	0.1 m/s
Temperature			
C/F Switchable	0 to 176°F (-18 to 80°C)	±0.3% of reading ±0.25°C	0.1°C
Air Flow			
m3/h, cfm, l/s, m3/s	0 to 99,999 m3/h	±3% of reading ±0.03*area(cm2)	1 m3/h



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VT-200 Series Hot-Wire or Vane Style Probes Thermo-Anemometers Specifications

Air Velocity Specifications Model VT-200-H 70 mm vane probe Thermo-Anemometer

Air Sensor Type: Hall effect sensor

Ambient temperature Sensor: Pt100 RTD 1/3 Din

Range and Accuracy Table

Measuring units	Measuring range	Accuracy	Resolutions
Air Velocity			
m/s, fpm, Km/h	0.3 to 3 m/s	±3% of reading ±0.1 m/s	0.1 m/s
	3.1 to 35 m/s	±1% of reading ±0.3 m/s	0.1 m/s
Temperature			
C/F Switchable	0 to 176°F (-18 to 80°C)	±0.4% of reading ±0.25°C	0.1°C
Air Flow			
m3/h, cfm, l/s, m3/s	0 to 99,999 m3/h	±3% of reading ±0.03*area(cm2)	1 m3/h

Air Velocity Specifications Model VT-200-L, 100 mm vane probe Thermo-Anemometer

Air Sensor Type: Hall effect sensor

Ambient temperature Sensor: Pt100 RTD 1/3 Din

Range and Accuracy Table

Measuring units	Measuring range	Accuracy	Resolutions
Air Velocity			
m/s, fpm, Km/h	0.25 to 3 m/s	±3% of reading ±0.1 m/s	0.1 m/s
	3.1 to 35 m/s	±1% of reading ±0.3 m/s	0.1 m/s
Temperature			
C/F Switchable	0 to 176°F (-18 to 80°C)	±0.4% of reading ±0.25°C	0.1°C
Air Flow			
m3/h, cfm, l/s, m3/s	0 to 99,999 m3/h	±3% of reading ±0.03*area(cm2)	1 m3/h

Air Velocity Specifications Models VT-200-P and VT-200-TP, 14 mm vane probe Thermo-Anemometer

Air Sensor Type: Proximity sensor

Ambient temperature Sensor: Pt100 RTD 1/3 Din

Range and Accuracy Table

Measuring units	Measuring range	Accuracy	Resolutions
Air Velocity			
m/s, fpm, Km/h	0.8 to 3 m/s	±3% of reading ±0.1 m/s	0.1 m/s
	3.1 to 35 m/s	±1% of reading ±0.3 m/s	0.1 m/s
Temperature			
C/F Switchable	0 to 176°F (-18 to 80°C)	±0.4% of reading ±0.25°C	0.1°C
Air Flow			
m3/h, cfm, l/s, m3/s	0 to 99,999 m3/h	±3% of reading ±0.03*area(cm2)	1 m3/h

*All accuracies indicated are stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with required compensation.

**The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. Only the larger value is considered.



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VT-200 Series Hot-Wire or Vane Style Probes Thermo-Anemometers Ordering Information

VT200 Series Thermo-Anemometer

- ▶ Air Velocity & Temperature Simultaneously
- ▶ 0 to 5900 FPM (0 to 30 m/s)
- ▶ New BIG Easy-to-Read ICE BLUE Backlit Display
- ▶ Telescopic Gooseneck Hot-Wire Probe
- (▶ 2) PT Temperature Channels
- ▶ Voltage / Current Module
- ▶ 8,000 Memory Set Points
- ▶ Wireless PC Communication
- ▶ Optional PC Software Available
- ▶ User-Friendly Joystick
- ▶ Rugged, accurate, and highly sensitive
- ▶ Air Flow Detection
- ▶ Detection of Flow Direction
- ▶ Adjustable Shut-off
- ▶ Min and Max Values
- ▶ Hold Function
- ▶ Automatic Average
- ▶ Battery Indicator



Order Information		
Part Number	Description	Price
VT-200H	70 mm Vane Probe Thermo-Anemometer	\$885.00
VT-200L	100 mm Vane Probe Thermo-Anemometer	\$899.00
VT-200P	14 mm Vane Probe Thermo-Anemometer	\$1109.00
VT-200TP	14 mm Telescopic Vane Probe Thermo-Anemometer	\$1215.00
VT-200F	Hot-Wire Probe Thermo-Anemometer	\$949.00
VT-200F	Gooseneck-shaped Telescopic Hotwire Probe Thermo-Anemometer	\$1119.00
Optional Probes and Accessories		
HE 14	14mm vane probe 0.6 to 40 m/s Air velocity and temperature probe	\$639.00
HET 14	14mm telescopic 0.6 to 40m/s Air Velocity Probe	\$609.00
HE 70	70 mm vane probe 0.3 to 35m/s Air velocity and temperature probe	\$379.00
HE 100	100mm vane probe 0.2 to 35m/s Air velocity and temperature	\$369.00
FC 300	Gooseneck-shaped 10 mm telescopic hotwire probe, 900mm, Air velocity and temperature (0.15 to 30 m/s and -10 to +50C)	\$325.00
FCT 900	Gooseneck-shaped 10 mm telescopic hotwire probe, 900mm, Air velocity and temperature	\$696.00
MTC 4	Compensated 4 Channel Thermocouple Module miniature plug thermocouple type J, K or T	\$185.00
LPCF	Datalogging Software for AIM-300, 200 Series Thermo-Hygrometers and Thermo-Anemometer	\$185.00

Each Unit Includes: Base Model and Probe, voltage/current module (0 to 10 V/ 4 to 20mA), 2 Pt100 RTD Temperature channels (-100 to +400°C), Carrying Case, batteries, Calibration Certificate and Instruction Manual.