



Ask
about:

Calibration
certificate

Hot-Wire Thermo-Anemometer

VT 100

CE



Functions

- Air velocity and ambient temperature
- Selection of units
- HOLD function
- Minimum and maximum values
- Automatic average
- Air flow calculation
- Adjustable automatic shut-off
- Adjustable backlight

Technical features

Measuring element

Hotwire air velocity : Thermistance with a negative temperature coefficient.

Display

Ambient temperature : Pt100 1/3 DIN
2 lines, LCD technology. Sizes 50 x 34.9 mm.
1 line of 5 digits with 7 segments (value)
1 line of 5 digits with 16 segments (unit)

Housing

Shock-proof made of ABS, IP54 protection

Keypad

Metal-coated with 5 keys

Cable

Straight, lg. 2 m

Conformity

electromagnetical compatibility (NF EN 61326-1 guideline)

Power supply

1 alkaline battery 9V 6LR61

Operating temperature

from 0 to 50°C

Storage temperature

from -20 to +80°C

Auto shut-off

adjustable from 0 to 120 min

Weight

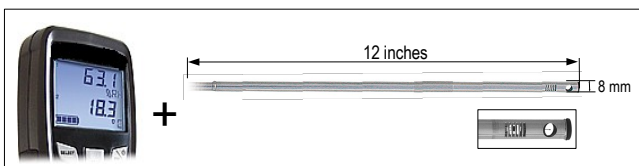
6.7 oz

Languages

English, French

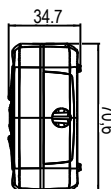


VT 100 - Standard Hot-Wire

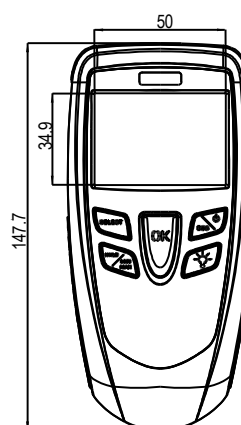


Dimensions (mm)

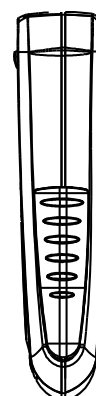
• Top view



• Front view



• Side view



Specifications

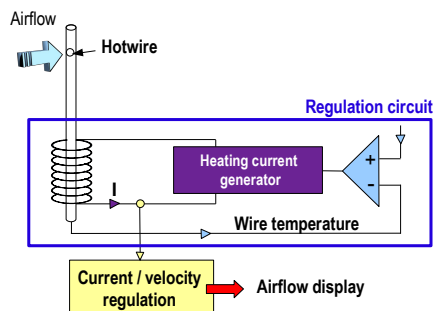
	Measuring units	Measuring ranges	Accuracy*	Resolutions
AIR VELOCITY (Hotwire)				
	m/s, fpm, Km/h	from 0.15 to 3 m/s from 3.1 to 30 m/s	$\pm 3\%$ of reading ± 0.05 m/s $\pm 3\%$ of reading ± 0.2 m/s	0.01 m/s 0.1 m/s
AIR FLOW				
	m ³ /h, cfm, l/s, m ³ /h	from 0 to 99999 m ³ /h	$\pm 3\%$ of reading $\pm 0.03 \cdot \text{area}(\text{cm}^2)$	1 m ³ /h
AMBIENT TEMPERATURE				
	°C, °F	from -20 to +80°C	$\pm 0.4\%$ of reading $\pm 0.3^\circ\text{C}$	0.1°C

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

Working principle

Hotwire anemometer

A wire is continuously heated at a superior temperature than ambient and continuously cooled by airflow. Constant temperature is maintained by a regulation circuit. The heating current is proportional to the airflow velocity.



Thermometer : Pt100 probe

Pt100 is a resistance with a positive temperature coefficient which varies according to the temperature. The higher the temperature is, the more the value of the resistance increases. ie : for 0°C $\approx 100 \Omega$ - for 100°C $\approx 138,5 \Omega$.

Warranty period

Instruments have 1-year guarantee for any manufacturing defect (return to our Service Department).

Supplied with ...



● Included ○ Optional

DESCRIPTION	VT 100
Hotwire probe Ø 8mm, length 300 mm	●
Airflow cone	○
Calibration certificate	○
Transport case	●

Accessories (See related datasheet)

CE 100	K 35 - 75 - 120 - 150
Protective cover with magnet and holding system	Air flow cones (See related datasheet)
BNF	RD 300
Hotwire cleaning spray 	Hotwire extension / to be clipped / straight Ø 10 mm. length 300 mm

FTang - VT 100 - 05/08 B - We reserve the right to modify the characteristics of our products without notice.