



Technical Data Sheet

Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level



Calibration
certificate

Hotwire thermo-anemometer VT 100

New
CE



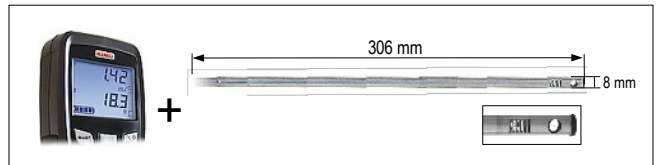
Functions

- 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

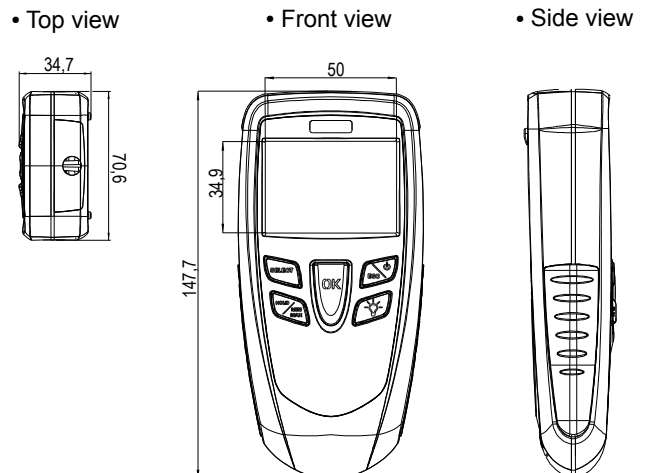
Technical features

- Measuring element**.....Hotwire air velocity : Thermistance with a negative temperature coefficient.
Ambient temperature : Pt100 1/3 DIN
- Display**.....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 alcaline 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**.....190g
- Languages**.....French, English

VT 100 - Standard hotwire



Dimensions



Specifications

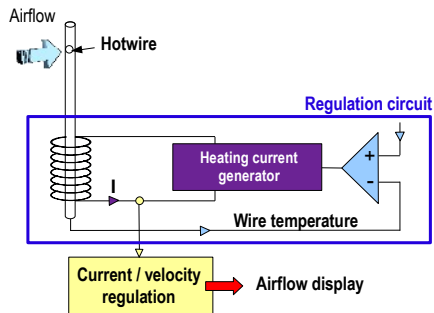
	Measuring units	Measuring ranges	Accuracy*	Resolutions
AIR VELOCITY (Hotwire)				
	m/s, fpm, Km/h	from 0.15 to 3 m/s from 3.1 to 30 m/s	±3% of reading ±0.05m/s ±3% of reading ±0.2m/s	0.01 m/s 0.1 m/s
AIR FLOW				
	m³/h, cfm, l/s, m³/h	from 0 to 99999 m³/h	±3% of reading ±0,03*area(cm²)	1 m³/h
AMBIENT TEMPERATURE				
	°C, °F	from -20 to +80°C	±0.4% of reading ±0.3°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 □ 100 □ - for 100°C □ 138,5 □ .

Warranty period

Instruments have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required for appraisal).

Supplied with ...






- Included ○ Optional

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

*except class 100S

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