Supplied with* | 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 with cone
- 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*

306 mm

8 mm
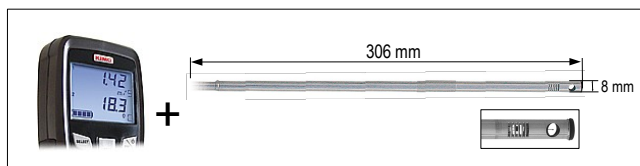
■ *Dimensions*

• Top view

34,7 | 70,6

• Front view

50 | 34,9 | 147,7
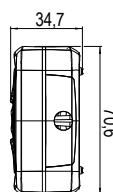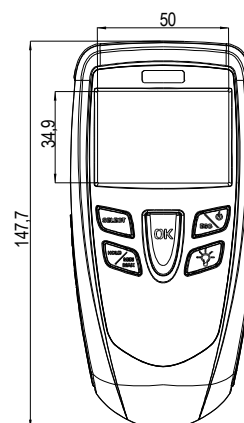
• Side view
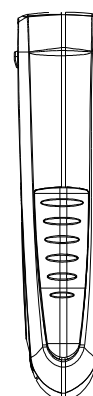
■ Specifications

	Measuring units	Measuring ranges	Accuracy*	Resolutions
AIR VELOCITY (Hotwire)				
	m/s, fpm, Km/h	from 0.15 to 3 m/s	±3% of reading ±0.05m/s	0.01 m/s
		from 3.1 to 30 m/s	±3% of reading ±0.2m/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.
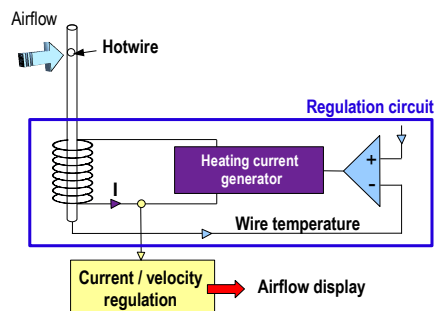
Thermometer : Pt100 probe

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 Ω - for 100°C ≈ 138,5 Ω.

■ Warranty period

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

■ Supplied with ...

465 mm
215 mm

● 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

www.kimo.fr

Distributed by :

EXPORT DEPARTMENT
Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29
e-mail : export@kimo.fr

AFAQ
ISO 9001
VERSION 2000