



Vane Probe Thermo-Anemometer



Functions

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

Technical features

Measuring elements	Vane anemometer : Hall effect sensor Ambient temperature : Pt100 class A
Display	4 lines, LCD technology. Sizes 50 x 34.9 mm. 2 line of 5 digits with 7 segments (value) 2 line of 5 digits with 16 segments (unit)
Housing	Shock-proof made of ABS, IP54 protection
Keypad	Metal-coated with 5 keys
Conformity	electromagnetical compatibility (NF EN 61326-1 guideline)
Power supply	1 alkaline battery 9V 6LR61
Operating temperature (instrument)	from 0 to 50°C
Storage temperature	from -20 to +80°C
Auto shut-off	adjustable from 0 to 120 min
Weight	300 g
Languages	French, english



Two (2) Models :

- LV 130 - Ø 100 mm **MOVING** Vane probe – Fixed and Rotating
Vane probe rotation : +180° / -90° increments of 90°



- LV 120 - Ø 100 mm Vane probe – FIXED Vane Head

Specifications

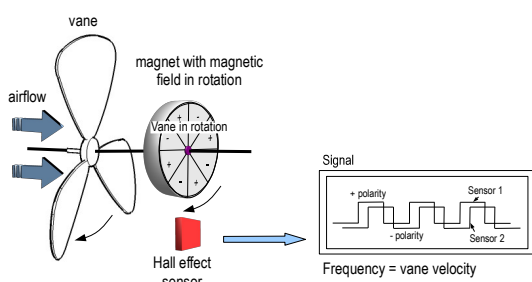
	Measuring units	Measuring ranges	Accuracy*	Resolutions
AIR VELOCITY				
	m/s, fpm, Km/h	from 0.25 to 3 m/s from 3.1 to 35 m/s	$\pm 3\%$ of reading ± 0.1 m/s $\pm 1\%$ of reading ± 0.3 m/s	0.01 m/s 0.1 m/s
AIR FLOW				
	m ³ /h, cfm, l/s, m ³ /h	from 0 to 99999 m ³ /h	$\pm 3\%$ of reading ± 0.03 *area(cm ²)	1 m ³ /h
AMBIENT TEMPERATURE				
	°C, °F	from 0 to +50°C	$\pm 0.4\%$ 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

Anemometer : Hall effect sensor

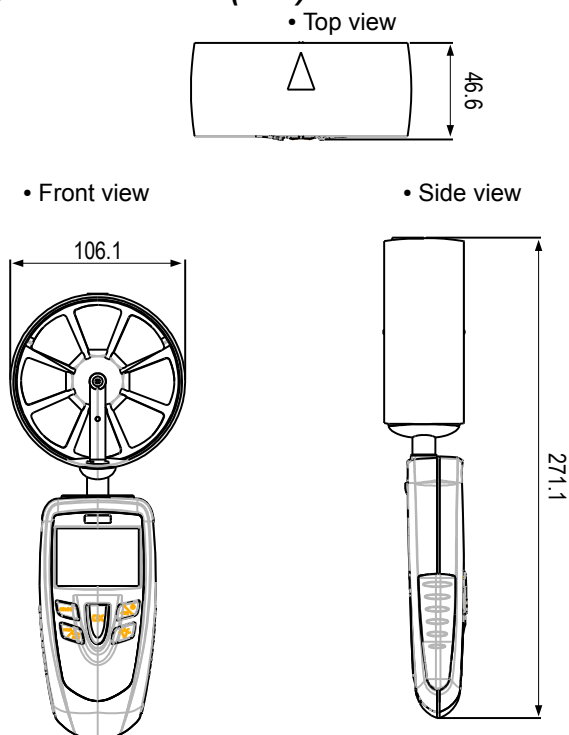
Rotation of the shaft of the vane powers a circular magnet of 8 poles. A dual Hall effect sensor, placed next to the magnet senses the signals of magnetic field polarity transition. The sensor signal is converted to electrical frequency and is proportional to the air velocity. Signal chronology allows the detection of rotation direction.



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 Ω - for 100°C $\approx$ 138.5 Ω .

Dimensions (mm)



Supplied with ...

● Supplied with ○ Option

DESCRIPTION	LV 120	LV 130
Ø 100 mm vane probe	●	○
Moving Ø 100 mm vane probe	○	●
Air flow cone K25 - K85	○	○
Calibration Certificate	○	○
Transport case	●	●

Accessories (See related datasheet)

K 25 – K 85	CE 100
Air flow cone (See related datasheet)	Protective cover with magnet and holding system

Warranty period

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