

Technical Data Sheet

- Hold-min-max functions

- Selection of units

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

Vane probe thermo-anemometer LV 130

KEY POINTS

- Airflow calculation
- Automatic average

TECHNICAL FEATURES

Measuring elements	Air velocity : Hall effet sensor Ambient temperature : NTC	
Display	4 lines, LCD technology. Sizes 50 x 36 mm 2 lines of 5 digits with 7 segments (value) 2 lines of 5 digits with 16 segments (unit)	
Vane probe diameter	Ø100 mm	
Housing	ABS, protection IP54	
Keypad	5 keys	
European directives	2014/30/EU EMC ; 2014/35/EU Low Voltage ; 2011/65/EU RoHS II ; 2012/19/EU WEEE	
Power supply	4 batteries AAA LR03 1.5 V	
Battery life	58 hours**	
Ambience	Neutral gas	
Conditions of use (instrument) (°C, %RH, m)	From 0 to +50°C. In non condensing conditions. From 0 to 2000 m.	
Operating temperature (probe)	From 0 to +50°C	
Storage temperature	From -20 to +80°C	
Auto shut-off	Adjustable from 0 to 120 min	
Weight	390 g	

SPECIFICATIONS

Measuring units	Measuring range	Accuracy ¹	Resolution
Velocity			
m/s, fpm, km/h	From 0.3 to 35 m/s	From 0.3 to 3 m/s: \pm 3% of reading \pm 0.1 m/s From 3.1 to 35 m/s: \pm 1% of reading \pm 0.3 m/s	0.01 m/s 0.1 m/s
Airflow			
m³/h, cfm, l/s, m³/s	From 0 to 99 999 m³/h	±3% of reading ±0.03 * area (cm ²)	1 m³/h
Temperature			
°C, °F	From 0 to +50 °C	±0.4 % of reading ±0.3°C	0.1°C



FUNCTIONS

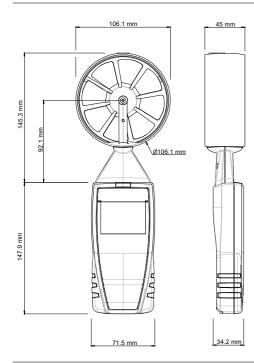
- Airflow calculation
- · Airflow calculation with cone
- Automatic average
- · Selection of units (air velocity,
- airflow and temperature)
- Hold function
- Display of minimum and maximum values
- Adjustable auto shut-off
- Backlight
- Detection of flow direction

* Except class 110 S **Battery life given at 20°C with alkaline batteries

¹All the accuracies indicated in this technical data sheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation

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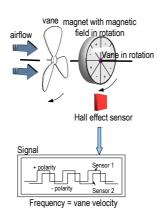
DIMENSIONS



OPERATING PRINCIPLES

Air velocity : 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 rotation velocity of the van probe. Signals chronology allows to determine the rotation direction.



Thermometer : CTN probe

Negative temperature coefficient probes are thermistors with a resistance that decreases with temperature according to the equation below:

$$R_{(T)} = R_{(T0)} e^{-\frac{\alpha}{100} x (T_0 + 273.15)^2 x (\frac{1}{T + 273.5} - \frac{1}{T_0 + 273.5}))}$$

RT= resistance sensor value at temperature T R(T0)=resistance sensor value at reference temperature T_0 T and T_0 in °C α and T_0 sensor specific constants

SUPPLIED WITH



ACCESSORIES

CQ 15 : Magnetic protective housing

K 25 – 85 : Airflow cone for anemometer



MT 51 : ABS transport case

MAINTENANCE

We carry out calibration, adjustment and maintenance of your instruments to guarantee a constant level of quality of your measurements. As part of Quality Assurance Standards, we recommend you to carry out a yearly checking.

GUARANTEE

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



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