



Technical specifications

Parameters	Accuracy ⁽¹⁾	Measuring range	Resolution
	LV111 (Ø 14 mm): from 0.8 to 3 m/s: \pm 3% of reading \pm 0.1 m/s From 3.1 to 25 m/s: \pm 1% of reading \pm 0.3 m/s	From 0.8 to 25 m/s	0.1 m/s
Air velocity	LV110 (Ø 100 mm): from 0.3 to 3 m/s: ±3% of reading ±0.1 m/s From 3.1 to 35 m/s: ±1% of reading ±0.3 m/s	From 0.3 to 35 m/s	0.01 m/s, 0.1 m/s
	LV 117 (Ø 70 mm): from 0.4 to 3 m/s: ±3% of reading ±0.1 m/s From 3.1 to 35 m/s: ±1% of reading ±0.3 m/s	From 0.4 to 35 m/s	0.1 m/s
Airflow All models	\pm 3 % of reading \pm 0.03 x area (cm ²)	From 0 to 99 999 m ³ /h	1 m³/h
Temperature All models	± 0.4 % of reading ± 0.3 °C	From -20 to +80 °C	0.1 °C

General features

Measuring units	LV 111 - LV 117 - LV 110: m/s, fpm, km/h All models (airflow): m ³ /h, cfm, l/s, m ³ /s All models (temperature): °C, °F
Measuring elements	Air velocity: Hall effect sensor Ambient temperature: NTC sensor
Display	4 lines, LCD technology. Dimensions 50 x 36 mm. 2 lines of 5 digits with 7 segments (value) 2 lines of 5 digits with 16 segments (unit)
Vane diameter	LV111: Ø 14 mm LV117: Ø 70 mm LV110: Ø 100 mm
Cable	Coiled, 0.45 m length, extension 2.4 m
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 ⁽¹⁾
Ambience	Neutral gas
Conditions of use (°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

⁽¹⁾Battery life given at 20 °C with alkaline batteries.

Operating principle

Air velocity: Hall effect sensor

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

Thermometer: NTC probe

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





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.

Warranty

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

Dimensions (in mm)



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Kit content

- LV 111: vane probe Ø 14 mm
- LV 117: vane probe Ø 70 mm
- LV 110: vane probe Ø 100 mm
- Calibration certificate
- Transport case (ref.: ST 110)

Accessories

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Name	Reference
Coque Magnetic protective housing	CQ 15
Telescopic exxtension 1 m length, with index at $\pm 90^{\circ}$	RTE
Airflow cones for LV 110 anemometer	K 25 – 85
ABS transport case	MT 51



Hall effect sensor

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