

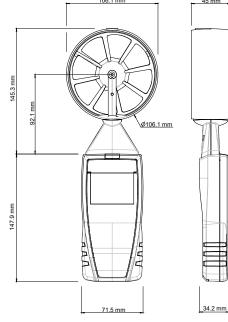
Technical specifications

Parameters	Measuring units	Accuracy ⁽¹⁾	Measuring range	Resolution
Air velocity	m/s, fpm, km/h	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	From 0.3 to 35 m/s	0.01 m/s 0.1 m/s
Airflow	m³/h, cfm, l/s, m³/s	$\pm 3\%$ of reading ± 0.03 x area (cm²)	From 0 to 99 999 m ³ /h	1 m³/h
Temperature	°C, °F	$\pm 0.4\%$ of reading $\pm 0.3~^\circ\text{C}$	From 0 to +50 °C	0.1 °C

General features

Measuring elements	Air velocity: Hall effect sensor Ambient temperature: NTC				
Display	4 lines, LCD technology. Dimnsions 50 x 36 mm. 2 lines of 5 digits with 7 segments (value) 2 lines of 5 digits with 16 segments (unit)				
Vane diameter	Ø 100 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 ⁽¹⁾				
Ambiance	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.					

Dimensions (in mm)



Kit content

Calibration certificate

• Transport case (ref.: ST 110)

Accessories

Nom	Reference
Magnetic protective housing	CQ 15
Airflow cone for anemometer	K 25 – 85
ABS transport case	MT 51

 $^{\scriptscriptstyle (1)}\textsc{Battery}$ life given at 20 °C with alkaline batteries.

Operating principle

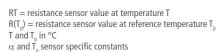
Air velocity: Hall effect sensor

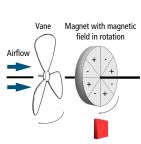
Rotation of the vane probe leads to a circular magnet of 8 poles. A dual Hall effect sensor, placed next to the magnet captures the signals of magnetic field polarity transition. The sensor signal is converted to electrical frequency and is proportional to the rotation velocity of the vane probe. Signal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

Thermometer: NTC probe

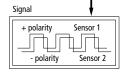
Negative temperature coefficient probes are thermistors with a resistance that decreases with temperature according to the equation below:

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





Hall effect sensor



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).

