





DATA SHEET

Manometer



Easy to use

Hold-min-max function dadad

Features

- Pressure measurement
- Air velocity measurement
- Coefficient of the adjustable differential pressure element
- Temperature and atmospheric pressure compensation
- Selection of units

- Manual autozero
- Hold function
- Display of minimum and maximum values

Selection of units

Manual autozero

- Configurable auto shut-off
- Backlight

Technical specifications

Parameters	Measuring units	Accuracy*	Measuring range	Resolution
Pressure	Pa, mmH ₂ O, inWg, daPa, m/s, fpm	$\pm 0.5\%$ of reading ± 2 Pa	From -1000 to +1000 Pa	1 Pa
Air velocity	m/s, fpm, km/h	From 2 to 5 m/s: \pm 0.7 m/s From 5 to 40 m/s: \pm 0.5% of reading \pm 0.3 m/s	From 0 to 40 m/s	0.1 m/s

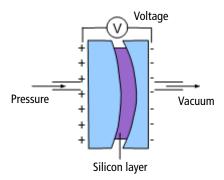
General features

Measuring element	Piezoresistive sensor		
Tolerated overpressure	250 mbar		
Connector	Ø6.2 mm threaded connectors made of nickelled brass		
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)		
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	180 hours		
Ambiance	Neutral gas		
Conditions of use (°C,%RH, m)	From 0 to +50°C. In non condensing conditions. From 0 to 2000 m.		
Storage temperature	From -20 to +80°C		
Auto shut-off	Adjustable from 0 to 120 minutes		
Weight	220 g		

Operating principle

Piezoresistive sensor

The pressure deforms the silicon layer. This layer deformation generates a voltage at its terminates. This voltage is proportional to the pressure applied.

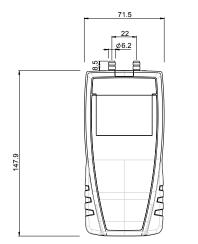


Pitot tube

Dynamic pressure is measured by Pitot tube: **Pd** = Total pressure (**Pt**) – Static pressure (**Ps**) Air velocity is calculated according to Bernoulli simplified formula. Formula with temperature correction:

$$V_{m/s} = K \times \sqrt{\frac{574,20 + 156842,77}{P_0}} \times \sqrt{\Delta P_{m/s}}$$

Dimensions (in mm)



Kit content

- Calibration certificate (except class 110 S)
- 2 x 1 m of silicone tube, Ø4 x 7 mm
- Stainless steel tip, Ø6 x 100 mm
- Transport case (ref: ST 110)

Accessories

Name	Reference
Magnetic protective housing	CQ 15
Straight junctions, in T or Y for tube Ø 5x8 mm	JTC or JTY
Pitot tubes Different lengths, Ø 3/6 or 8mm, bent or straight	See specific data sheet
ABS transport case	MT 51

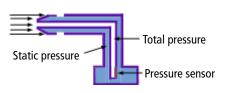
Maintenance

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).



Po = Barometric pressure in Pa θ = temperature in °C K = Pitot tube coefficient

www.kimo-instruments.com

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