

Technical Data Sheet

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



Manometers MP 100 - 101 - 105 - 112 **MP 120**











Functions

- Pressure
- Selection of units
- Manual automatic calibration
- HOLD function
- Minimum and maximum values
- Adjustable automatic shut-off
- · Adjustable backlight
- Adjustable climatic parameters (MP120)
- · Built-in calculation for velocity (MP120)

Technical features

Measuring element.....piezoresistif sensor

Overpressure allowed.......MP 100: 250mbar, MP101: 700mbar,

MP105: 1.4bar, MP112: 3 bar

MP 120: 250 mbar

Pressure connectors.......MP 100/101/120 : Ø 6.2 mm barbed connectors

made of nickelled brass

MP 105 et 112: Ø 4.6 mm threaded connectors

made of nickelled brass

1 line of 5 digits with 7 segments (value) 1 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 alcaline battery 9V 6LR61

Operating temperature......from 0 to 50°C Storage temperature......from -20 to +80°C

Auto shut-off.....adjustable from 0 to 120 min

Weight.....190g

Languages.....French, english



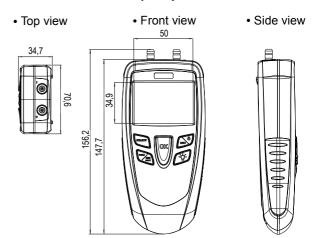
MP 100 - 101 - 120



MP 105 - 112



Dimensions (mm)



Working principle

Piezoresistif sensor Piezoresistif sensor is a diaphragm formed on a silicon substrate, which bends with applied pressure and generates millivoltage or millicurrent proportional to the pressure applied.

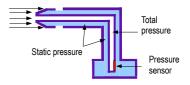
Pitot tube

Dynamic pressure is measured by Pitot tube : **Pd** = Total pressure – Static pressure

Velocity is calculated according to Bernoulli simplified formula.

Formula with temperature correction:

$$V_{m/s} = K x \sqrt{\frac{574.2 \theta + 156842.77}{P_0}} x \sqrt{\Delta P_{en Pa}}$$



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

Supplied with ...

DESCRIPTION	MP 100	MP 101	MP 105	MP 112	MP 120
Pressure sensor from 0 to ±1000 Pa	•				•
Pressure sensor from 0 to ±1000 mmH ₂ O	į	•			
Pressure sensor from 0 to ±500 mbar			•		
Pressure sensor from 0 to ±2000 mbar				•	
Pitot tube Ø 6mm, length 300 mm	0	0	0	0	0
2x1 m clear tube Ø 4 x 6 mm	0	0	•	•	0
2x1 m silicone tube Ø 4 x 7 mm	•	•	0	0	•
Stainless steel tip Ø 6 x 100 mm*	•	•			•
Calibration certificate*	•	•	•	•	•
Transport case	•	•	•	•	•



IncludedOptionnal

Accessories (See related datasheet)

CE 100	J.T.C or J.Y.C	See related datasheet
Protective cover with magnet and holding system	Straight connections, in T or Y for tube Ø 5x8mm	Pitot Tube available in many lengths Ø 3/6 or 8mm, with or without temperature compensation

Warranty period

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

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^{*}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.