

## **Manometers**

# New

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









- 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)



MP 100 - 101 - 120

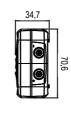


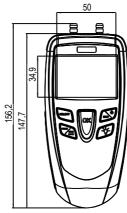
MP 105 - 112





 Front view • Top view









#### Technical features

Measuring element piezoresistif sensor

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

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

Display 2 lines, LCD technology. Sizes 50 x 34.9 mm.

> 1 line of 5 digits with 7 segments (value) 1 line of 5 digits with 16 segments (unit) Shock-proof made of ABS, IP54 protection

Keypad Metal-coated with 5 keys

Conformity electromagnetical compatibility (NF EN 61326-1 guideline)

1 alcaline battery 9V 6LR61 Power supply

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

Auto shut-off adjustable from 0 to 120 min

Weight 6.7 oz.

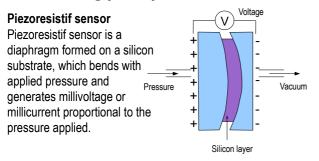
Languages English, French

Housing

	Measuring units	Measuring range	Accuracy*	Resolutions			
PRESSUR	RE						
MP 100	Pa, mmH2O, inWg, daPa	from 0 to ±1000 Pa	±0.5% of reading ±2 Pa	1 Pa			
MP 101	kPa, mmH2O, inWg, mbar, mmhg, daPa	from 0 to ±1000 mmH <sub>2</sub> O	±0.5% of reading ±2 mmH <sub>2</sub> O	0 to ±200mmH <sub>2</sub> O : 0,1 mmH <sub>2</sub> O beyond : 1 mmH <sub>2</sub> O			
MP 105	kPa, inWg, mbar, mmHg, PSI	from 0 to ±500 mbar	±0.5% of reading ±0,5mbar	0,1 mbar			
MP 112	kPa, inWg, mbar, mmHg, PSI, bar	from 0 to ±2000 mbar	±0.5% of reading ±2mbar	1 mbar			
MP 120	Pa, mmH2O, inWg, m/s, fpm, daPa	from 0 to ±1000 Pa	±0.5% of reading ±2 Pa	1 Pa			
AIR VELOCITY Pitot tube							
MP 120	m/s, fpm, Km/h	from 2 to 5 m/s from 5 to 40 m/s	±0.7 m/s ±0.5% of reading ±0.3 m/s	0.1 m/s			

<sup>\*</sup>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.

### Working principle

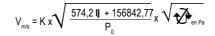


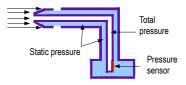
#### Pitot tube

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

Velocity is calculated according to Bernoulli simplified formula.

Formula with temperature correction:





Po = Barometric pressure in Pa

1 = 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	•	1 1 1 1	!	 	•
Pressure sensor from 0 to ±1000 mmH <sub>2</sub> O		•	1		
Pressure sensor from 0 to ±500 mbar		1	•		
Pressure sensor from 0 to ±2000 mbar		1		•	
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*	•	•	! !		•
Transport case	•	•	•	•	•



Included Optionnal

#### 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).