



ManoAir500

Digital Micromanometer

The universal usable differential pressure Micromanometer ManoAir500

indicates beside Pa, mbar and mmH₂O directly the flow velocity of gaseous media.

Thereby media temperature, effective ambient pressure and humidity is considered.

Instrument features:

- 2 models: Measuring range +/- 200 Pa
Measuring range +/- 2000 Pa
- Measurement units with changeover facility
Pressure Pa, mbar, mmH₂O
Flow m/s, l/min, m³/h
Barometer kPa, bar
with humidity probe % rF
with temp. probe °C
- Mean, minimum and maximum values per keystroke
- Automatic temperature compensation of the pressure sensor
- Connection facility for external humidity and temperature probe.
- Thermocouples type E, J, K and T can be used in addition to NTC- and PT1000 - temperature probes
- Temperature, humidity and barometer readings available per keystroke
- with automatic 10% measuring range changeover
- Analogue output , Mini2Logger and RS232 connections available as standard.
- Integrated barometer module
- Duct cross-section input facility per keystroke (for l/min or m³/h)
- Flow calculation via standard or variable density



SCS 046

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Attractive features of the ManoAir500 together with its universal use as a relative and differential pressure instrument are its possibilities for flow measurement under real conditions (compensation of the media temperature, humidity and ambient pressure) as well as volume flow measurement over variable duct cross-sections.

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A variable density can be input as well as standard.

	Measuring range	Resolution	Accuracy
ManoAir500 Mod. 1 100% measuring range 10% measuring range	+/- 200 Pa +/- 20 Pa	0.1 Pa 0.01 Pa	+/- 0.2 Pa +/- 0.05 Pa
ManoAir500 Mod. 2 100% measuring range 10% measuring range	+/- 2000 Pa +/- 200 Pa	1 Pa 0.1 Pa	+/- 2 Pa +/- 0.5 Pa
Barometer (static pressure)	0 to 400 kPa (4 bar)	1 kPa	+/- 1 kPa
Humidity probe Humidity: Temperature:	0 - 99% rh - 20 to 60°C	0.1% rh 0.1 °C	+/- 3% rh +/- 0.5 °C
Universal temp. probe	- 20 to 140°C	0.1 °C	at 0 - 70°C 0.2°C over 70°C 0.5°C
Air temp. probe	- 20 to 140°C	0.1 °C	at 0 - 70°C 0.2°C over 70°C 0.5°C
Surface temp. probe	- 20 to 140°C	0.1 °C	at 0 - 70°C 0.2°C over 70°C 0.5°C
Universal high temp. probe	- 20 to 600°C	0.1 °C	at 0 - 70°C 0.5°C over 70°C 1.0°C
Thermocouple with adapter	dependent on thermocouple in use	1 °C	dependent on thermocouple in use
Overload capacity Pressure connections Measuring media Units of measurement Display Measuring rate Supply Battery Current consumption Battery life Outputs Case dimensions Case protection type Weight Operating temp. Storage temperature Air humidity Working standard	4 bar (Max. static pressure) push-on nipple for Ø 3 mm int. dia. hose dry instrument air or inert gases Pressure: Pa, mbar, mmH ₂ O Flow: m/s, l/min, m ³ /h LCD 4 digit 2 measurements / sec. Battery (2 x 9 Volt) or external mains supply Leclanché LR22-9 V approx. 40 mA approx. 8 h Pressure: +/- 1 Volt Flow: +/- 1 Volt signal output for Mini2Logger (interval 0.5 sec) signal output for RS232 (interval 0.5 sec) 190 x 150 x 70 mm (with carrying bracket 250 x 180 x 70 mm) IP 40 approx. 1000 gram 10 to 40°C -30 to 80°C 0 to 90% rh, non-condensing Betz Micromanometer at 22°C / 960 hPa		

Customer special version on demand

Specifications subject to change without notice.