

Swema 3000



Swema 3000mdH+

Swema 3000 is an ultimate tool for professional measurements in indoor climate and industry.

- Number of measuring modes, each developed for a specific measurement task.
- Interchangeable probes, designed for your needs, with highest accuracy and reliability: Air velocity, air flow, differential pressure, temperature, relative humidity and draught.
- The instruments identifies probe and calibration data.
- Measuring results and probe calibration protocols are easily transferred to PC.
- Three PC softwares available: SwemaUSB, SwemaTerminal (freewares) and SwemaMultipoint.
- Built-in data logger, sampling: 0,1second...24 hours.
- Display light

Swema 3000 series:

- Swema 3000 (764.200)
- Swema 3000d (764.201)
- Swema 3000md (764.202)
- Swema 3000mdH+ (764.203)



Swema 3000mdH+

Sensors

Swema 3000md is Swema's top model in universal measuring instruments. In addition to all the sensors easily connectable, it has two built-in sensors: The manometer with wide measuring interval (H+), the barometer and also a thermo element connector.

Unique measuring methods

For every sensor and the built in manometer there is a wide array of methods for measuring. For example Comfort (CO) for the draught sensor, Backpressure (BP) for Swema Flow 125 and Logging (LOG) for all sensors.

(m) manometer -10 000...10 000Pa

With the integrated manometer together with a pito static pipe Swema 3000mdH+ will measure air velocity and air flow in a ventilation duct.

When you enter the K-factor with a ventilation sensor connected, the display will immediately show the airflow. The instrument has a built in valve so the zero reference is checked everytime you perform a measurement. This means your measurement will be correct and no need to disconnect anything!

It is possible to deactivate the automatic zero reference checking for slightly faster measuring.

With the differential pressure sensor in Swema 3000mdH+ it is possible to select a 0.01Pa precision.

(d) for density compensation

Due to the barometer and thermo element the air pressure and temperature can always be measured. The air flow and air velocity measure is therefore automatically compensated for density.

If you connect a sensor with integrated temperature measuring the measurement of the sensor is used for density compensation. If temperature measuring is not a feature of the connected sensor, for example in differential pressure sensor Swa 10, Swa 07 and SwemaFlow 65, it is possible to connect such a measuring sensor to the thermo element connector of Swema 3000 md or manually entering a temperature value.

Calibration

Since Swema 3000md contains a barometer and differential pressure sensor it is recommended to calibrate every year. External sensors are individually calibrated and need not be calibrated together with Swema 3000md.

The calibration protocol is saved in the instrument and sensors and you can at any time transfer it to PC or mini printer to show it.



Swema 3000mdH+ (Part no: 764.203)

*SWA 31 (Part no: 758.150) is additional accessory, not included in Swema 3000mdH+

Technical data:

Integrated manometer :

Differential pressure
-10 000...+10 000 Pa
Precision by choice: 0...2 decimals
ca 2...129 m/s
±1% read value, at least ± 0,4 Pa
Max load ± 100 000 Pa
Dry and moist air, non aggressive gases

Integrated Barometer:

600...1200hPa ±2,5hPa

Thermoelementcontact Type K:

-270...1372°C standard curve Type K
±0,3°C at -10...70°C

wire sensor included :

-40...250°C ±2,5°C

Main unit:

Instrument's working temperature: 0...50°C
RS232, USB data interface
2p 1,5V batteries
Time and date for each measurement

Memory:

10.500 rows logged values with 3 values on each row. ex: m/s, °C, hPa or 1.300 measurement notes



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