

Swema 3000

Universal Instrument

Multifunctional

Swema 3000 is a multifunctional instrument and logger with external probes, leakage testers, SwemaTwin modems and measurement programs.

Models and Sensors

Three models: Swema 3000 basic unit. Swema 3000md and mdH+ with differential pressure sensor, zeroing valve, barometer and thermo couple connector. Selection of external probes: anemometers, temperature probes and Rotronic humidity probes. Draught - omni-directional anemometer, black globe and humidity probes fulfill ISO-EN 7726 requirements. Probes and instruments are individually calibrated.

Ventilation - Air flow

Swema 3000 is the ideal professional tool for ventilation testing, adjusting and balancing (TAB) and includes telescopic anemometers, air density compensation and measuring programs according to EN 16211 and 12599. Swema 3000md and mdH+ are micromanometers of highest accuracy for Pitot static tube and air terminal device (ATD) measurements. SwemaTwin is the proportional method with a second instrument communicating its measurement value from the reference valve by wireless modems.

Duct and building leakage tester

Swema 3000md controls a leakage tester for ducts according to EN 12237 or EN 1507 and EN 1382 for buildings.



Industry and research

The accurate instruments and sensors together with the logging capability meet the high demand for exact measurements of temperature, humidity, differential pressure, air velocity and flow.



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Technical Data

General:

Memory: 1.300 protocols or 10.500 logs
Time and date.

Sampling interval: 0,1 second...24 hours.

Battery: 2 AA, standard/rechargeable.

Battery time: Up to 150h (24h display light)

Interface: USB to PC, RS232 for modems

PC software: *SwemaTerminal2*.

Size: 212x82x36 mm

IP rating: IP50 (protects against dust)

Swema 3000 md/mdH+:

Time

constant: 0,25...120 s (selectable)

Differential pressure:

-300...1.500Pa (md, SWA 10)
-10.000...10.000Pa (mdH+)

Resolution: 0,01 (mdH+), 0,1 or 1 Pa

Pitot static: 2...49(md)...129(mdH+)m/s,

tube velocity: 390...9600(md)...9999fpm

Other units: l/s, m³/h, cfm, m/s, fpm

Barometer: 600...1200 hPa

Temperature: -270...1372 °C,
-450...2500°F (Thermocouple
connector type K)

Thread sensor: -40...400°C, -40...750 °F
(Included) (class 1 thermo couple type K)

Weight: 490g

Measurement uncertainty at 23°C ±5°C:

Differential pressure: ±0,3% read value or
±0,3 Pa (md, after zeroing)
±1% read value or
±0,4 Pa (mdH+, after zeroing)

Barometer: ±2,5 hPa

Temperature: ±0,3°C at -10...70°C

With sensor: ±2,5°C

(Uncertainty according to GUM (JCGM 100:2008) using a coverage factor of 2, which for a normal distribution corresponds to a probability of 95%. It is important to correct the measurement values with the corrections stated in the calibration certificate to obtain the above uncertainties. Operational in 0...+50°C, non condensing, non moist air, <80%RH, non aggressive gases.)

Swema 3000 **Part.no. 764200:** Basic unit.
Swema 3000md **764202:** -300...1.500 Pa.
Swema 3000mdH+ **764203:** ±10 000Pa.

All models include:

2 1.5V IEC LR6 AA batteries, USB cable, calibration certificate & manual.

External Sensors

**For full range and technical data see
www.swema.com**



SWA 31: 0,1...30 m/s. **Part.no. 758150,**

SWA 31E: -20...80°C Air velocity, flow. **760090**



HC2A-S: 0...100 %RH, -40...+60°C. **859550**

SWHP 28-HC2: 0...100%RH, -40...+85°C **767560**



SWA 03: 0,05...3,0 m/s +10...+40 °C,
Omnidirectional Air velocity. **764730**



SWA 52 Globe temperature sensor. **765560**

Temperature sensors: -50...+450°C



SWA Differential Pressure
761430



Leakage testers

Duct **77110**

Building **765910**



SwemaTwin Bluetooth
3000-8 & 3000-3000
modem
768730, 766361

SwemaTwin Bluetooth
repeater
766681

SwemaTwin Radio modem
See www.swema.com



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