

# Swema 3000

## Universal Instrument

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### 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

Duct or 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)  
-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, m<sup>3</sup>/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. Air,  
air ducts. **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. **765530, 770280**



Building **765910** and Duct leakage tester. **765902**



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

SwemaTwin Bluetooth  
repeater  
**766681**

SwemaTwin Radio modem  
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