

ANEPO* - HANDHELD ANEMOMETER

Portable instruments for measuring velocity, flow and temperature in air ducts or vents. Suitable for air conditioning, heating, ventilation and environmental comfort. Max, Min, and Avg functions, REL and HOLD for auto power off exclusion. IP67 protection



TECHNICAL SPECIFICATIONS

Models:	ANEPO1	ANEPO2	ANEPO3 BASE	ANEPO3	ANEPO4 BASE	ANEPO4
Dimensions mm:	140x88x38	185x90x40				
Weight w/batteries g:	160	470				
Material:	ABS	ABS, rubber				
Display:	2x41/2 digit + symbols, area 52x42 mm					
Current consumption:	instrument off <20 microA					
Mains Adapter Option:	-	Output 12Vdc /1000mA				
INPUT probes:	hotwire		Pitot tubes			
INPUTserial :	no	yes	no	yes	no	yes
Units:	°C, °F, m/s, km/h, ft/min, mph, knot, l/s, m3/min, m3/h, ft3/s, ft3/min					
Logger:	no	yes	no	yes	no	yes
Date and time:	real time clock					
Accuracy:	1 min / month max deviation					
Storing:	2000 pages x 19 samples = 38000 total samples					
Serial Interface:	RS232C, galvanically isolated, Baud rate 1200 ... 38400 baud selectable Bit 8, None, 1, Xon /					
USB Interface:	1.2 - 2.0, galvanically isolated					



SATEMA

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HANDHELD ANEMOMETER - for hot-wire or vane probes

ANEPO1 Anemometer-Thermometer for air speed measurement which use hot-wire or vane probes, for temperature Pt100 sensor. It is used in the fields of air conditioning, heating, ventilation and environmental comfort. Storage of maximum, minimum, average value. Functions: REL, HOLD and auto power off which can be disabled, IP 67 protection degree. Complete with carrying case, instruction manual, 3 batteries. The air speed probes and the temperature probes have to be ordered separately.



Operating conditions: Operating temperature -5...50°C
 Storage temperature -25...65°C
 Work. relative humidity 0...90%RH without condensation

Protection degree: IP67

Power supply: Batteries 3X 1.5V type AA batteries, autonomy 200 hours with 1800mAh alkaline batteries

Power absorbed: with instrument off < 20A

Connections: Input module for the probes 8-pole male DIN45326

Measurement of temperature by Instrument Pt100 measurement range -200...+650°C, Pt1000 measurement range -200...+650°C

 Resolution 0.1°C
 Accuracy ±0.1°C
 Drift after 1 year 0.1°C/year

Input probes: Hot wire probes and vane probe (see ANESO 5G_058)

ANEPO2 Anemometer-Thermometer Data Logger which use hot-wire or vane probes to measure air speed, flow rate, and temperature Pt100 sensor inside pipelines and vents. The Data Logger stores maximum, minimum, average value and can store up to 38,000 samples. RS232C/USB output for data transfer in real time to a PC or printer. Functions: REL, HOLD and auto power off which can be disabled, IP67 protection degree. Complete with carrying case, instruction manual, 4 batteries, Software. The air speed probes, the temperature probes, cable for data downloading have to be ordered separately.



Operating conditions: Operating temperature -5...50°C
 Storage temperature -25...65°C
 Working relative humidity 0...90%RH without condensation

Protection degree: IP66

Power supply: Batteries 4X1.5V type AA batteries, autonomy 200 hours with 1800mAh alkaline batteries, power absorbed with instrument off 20

Mains Output: mains adapter 12Vdc / 1000mA

Security data stored: Unlimited, independent of battery charge conditions

 Date and time: In real time

 Accuracy: 1min/month max drift

 Measured values storage: Type 2000 pages containing 19 samples each, storage interval 1,5,10,15,30s; 1,2,5,10,15,20,30min; 1hour

Measurement of temperature by Instrument Pt100 measurement range -200...+650°C, Pt1000 measurement range -200...+650°C

 Resolution 0.1°C
 Accuracy ±0.1°C
 Drift after 1 year 0.1°C/year

USB interface: Type 1.1 - 2.0 electrically isolated

Connections: Input module for the probes 8-pole male DIN45326 connector
 Serial interface 8-pole MiniDin connector
 USB Interface Mini USB type B
 Mains adapter 2-pole connector (positive at centre)

Input probes: Hot wire probes and vane probe (see ANESO 5G_058)



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HANDHELD ANEMOMETER - for Pitot tubes

ANEPO3/4 Micromanometer-Thermometer for air speed and flow rate measurement by means of Pitot tubes, large LCD display. Designed to perform measurements in air conditioning, heating and ventilation. It measures the differential pressure by Pitot tube connected to the inputs of the instrument and achieve the speed and air flow in ducts or vents; also measure temperature with thermocouple K probe. Temperature measurement by K type thermocouple. RS232C/ USB output for data transfer in real time to a PC or printer. Functions: REL, HOLD and auto power off which can be disabled, IP 66 protection degree. Complete with carrying case, instruction manual, software, 4 batteries.



Versions:

Models	Differential Pressure	Speed	Maximum Overpressure
ANEPO3_BASE	±20mbar	2 ... 55m/s	±300mbar
ANEPO3_DATALOGGER	±20mbar	2 ... 55m/s	±300mbar
ANEPO4_BASE	±200mbar	2 ... 180m/s	±1bar
ANEPO4_DATALOGGER	±200mbar	2 ... 180m/s	±1bar

Temperature using thermocouple K

Temperature using Pitot tube

Accuracy Differential pressure

Accuracy Speed

Accuracy Temperature

Resolution Differential pressure

Resolution Speed

Resolution Flow rate

Resolution Temperature

Minimum Speed

Automatic air temperature compensation

Manual air temperature compensation

Unit of Measurement

Differential pressure

Speed

Flow rate

Temperature

Pipeline section for flow rate calculation

Fluid contacting the membrane

Temperature drift @20°C

Drift after 1 year

	ANEPO3	ANEPO4
Temperature using thermocouple K	-200...+600°C	
Temperature using Pitot tube	-200...+600°C	
Accuracy Differential pressure	±0.4%f.s.	±0,3%f.s.
Accuracy Speed	±(2% reading+0.1m/s)	±(2% reading+0,3m/s)
Accuracy Temperature	±0.1°C Refers to the instrument, the error due to the thermocouple or to the cold junction ref sensor is not included	
Resolution Differential pressure	0.005mbar - 0.5Pa	0.01mbar - 1Pa
Resolution Speed	0.5 m/s - 1 km/h - 1 ft/min - 1 mph - 1 knots	
Resolution Flow rate	1l/s - 0.01·103m ³ /h - 0.01·10 ³ cfm	
Resolution Temperature	0,1°C	
Minimum Speed	2 m/s	
Automatic air temperature compensation	-200...+600°C	
Manual air temperature compensation	-200...+600°C	
Unit of Measurement		
Differential pressure	Ps - mbar - mmH ₂ O - PSI	
Speed	m/s - km/h - ft/min - mph - knots	
Flow rate	l/s - m ³ /h - cfm	
Temperature	°C/°F	
Pipeline section for flow rate calculation	0.0001 - 1.9999 m ²	
Fluid contacting the membrane	non corrosive air and gas	
Temperature drift @20°C	0,02%/°C	
Drift after 1 year	0,1°C/year	



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