

ANEMOMETER

PCE-EM 890



- » compact and robust construction
- » high precision
- » very precise, smooth-running impeller
- » easy to read digital display
- » backlight
- » interchangeable impeller
- » Max-Min measurement
- » 11 measurement functions in one device

The anemometer PCE-EM 890 is an instrument for measuring environmental conditions. The anemometer gives you an accurate measurement very quickly. Due to the small dimensions and the low weight, this anemometer is an easy-to-use information system on the weather condition. It is possible to switch between the measuring functions with just one push of a button. Thus, this anemometer is ideal for technicians, sailors, farmers and many other people who are dependent on the weather or whose activities are significantly influenced by the weather.

With just one gauge, you can read wind speed, temperature, wind chill (sensed temperature), dew point, relative humidity, heat index, barometric pressure, and height above sea level. The anemometer offers you the functions of the individual measured value, minimum value, maximum value measurement.

The wind chill describes the difference between the measured air temperature and the sensed temperature as a function of the wind speed. Some of our anemometers can record the wind chill and other parameters.

The air pressure at any location in the Earth's atmosphere is the hydrostatic pressure of the air that prevails in that location. This pressure is consistent with the weight of the column of air that is on the surface of the earth or a body on it. The average atmospheric pressure of the atmosphere at sea level is 101325 Pa = 1013.25 hPa = 101.325 kPa and is thus part of the normal conditions.

Specification

Absolute pressure	
Measuring range	10 ... 999,9 hPa
Resolution	0,1 hPa
Accuracy	±1.5 hPa
Absolute pressure	
Measurement range min.	1000 hPa
Measurement range	1100 hPa
Resolution	1 hPa
Accuracy	±2 hPa
Absolute moisture	
Measuring range	10 ... 70 %
Resolution	0,1 %
Accuracy	±4 % RH
Absolute moisture	
Measuring range	70 ... 95 %
Resolution	0,1 %
Accuracy	±4% by mass +1.2% relative humidity
Wet bulb temperature	
Measuring range	-5,4 ... +49 °C
Resolution	0,1 °C
Speed	
Measuring range	0,4 ... 20 m/s
Resolution	1 m/s
Accuracy	±3 % of range
Speed	
Measuring range	80 ... 3937 ft/min
Resolution	1 ft/min
Accuracy	±3 % of range
Speed	
Measuring range	1,4 ... 72 km/h
Resolution	0.1 km/h
Accuracy	±3 % of range
Speed	
Measuring range	0,9 ... 44,7 mph
Resolution	0.1 mph
Accuracy	±3 % of range
Speed	
Measuring range	0,8 ... 38,8 knots

General technical data	
Inputs	Platinum 100
Measuring functions	HOLD, MAX, MIN
UV type	UV A
UV wavelength	290 ... 390 Nm
Display type	LCD
Display size	1,5 Inch
Display refresh rate	1 x per second
Measuring rate	1 Hz
Current consumption meter	5 mA DC
Automatic power-off	10 min
Housing	ABS (acrylonitrile-butadiene-styrene copolymers)
Dimensions	Vane Ø30 mm
Menu language	English, English (GB)
Protection class (device)	IP20
(Rechargeable) battery	1 x 3 V CR 2032 (button cell 3V) , lithium
Capacity	230 mAh
Operating conditions	0 ... 50 °C , 0 ... 80 % RH
Storage conditions	0 ... 50 °C , 0 ... 80 % RH
Dimensions (L x W x H)	120 x 45 x 20 mm
Weight	136 g

Resolution	0.1 knots
Accuracy	±3 % of range
Heat stress	
Measuring range	0 ... 100 °C
Resolution	0,1 °C
Accuracy	±2 °C
Height	
Measuring range	-2000 ... +9000 m
Resolution	1 m
Accuracy	±15 m
Volume flow	
Measuring range	0,024 ... 9,999 CFM
Resolution	0,001 CFM
Volume flow	
Measuring range	10 ... 99,99 CFM
Resolution	0,01 CFM
Volume flow	
Measuring range	100 ... 999,9 CFM
Resolution	0,1 CFM
Volume flow	
Measuring range	1000 ... 9999 CFM
Resolution	1 CFM
Volume flow	
Measuring range	10000 ... 99999 CFM
Resolution	10 CFM
Wind chill	
Measuring range	-9 ... +44,2 °C
Resolution	0,1 °C
Accuracy	±2 °C
UV	
Measuring range	0 ... 1999 µW/m²
Resolution	0,1 µW/m²
Accuracy	±(4% of range +2 digits)
UV	
Measuring range	2 ... 20 mW/m²
Resolution	0,01 mW/m²
Accuracy	±(4% of range +2 digits)
Dew point	
Measuring range	-25,3 ... +49 °C

Resolution	0,1 °C
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Temperature

Measuring range	0 ... 50 °C
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Resolution	0,1 °C
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Accuracy	±1.2 °C
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