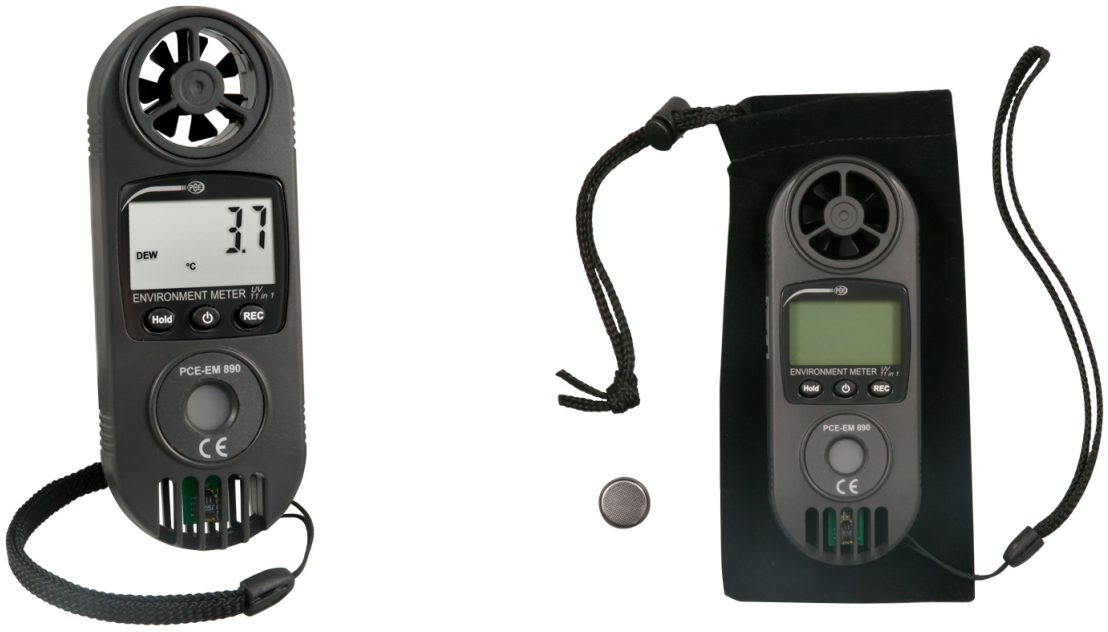
Anemometer PCE-EM 890



Anemometer PCE-EM 890

Climate weather measuring device for recording various environmental data/ Various measuring functions / MAX / MIN measurement / High accuracy

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.

Explanation of various environmental conditions:

Wind Chill

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.

Air Pressure

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.

Dew Point / Dew Point Temperature

Air can absorb more water vapor with increasing temperature. With decreasing temperature of a building material or the air, in which the relative humidity of 100% is reached, then the excess water vapor precipitates in the form of condensation.The boundary area is called dew point. Buildings should be designed so that the dew point temperature on the inside of the air tightness layer is not undershot.The formation of condensation and resulting structural damage or mold is thereby avoided.Particularly harmful are air currents through the air tightness layer. In this case, a fall below the dew point is always to be expected.The wet bulb temperature, which plays an important role in the air conditioning industry, for example, is a very important parameter in many other areas.

- 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

Subject to change

Specifications

Measuring function	Measuring range	Resolution	Accuracy
Wind speed	80 ... 3937 ft/min	1 ft/min	± 3% of measured value
	0.4 ... 20 m/s	0.1 m/s	
	1.4 ... 72 km/h	0.1 km/h	
	0.9 ... 44.7 mph	0.1 mph	
	0.8 ... 38.8 Knots	0.1 Knots	

Air temperature	Measuring range	Resolution	Accuracy
	0 ... 50°C / 32 ... 122°F	0.1°C / 0.18°F	± 1.2°C / 2.16°F

Humidity	Measuring range	Resolution	Accuracy
	10 ... 95% r.H.	0.1% r.H.	<70% r.H.: ± 4% r.H. >70% r.H.: ± 4 of measured value +1.2% r.H.

Barometric-air pressure	Measuring range	Resolution	Accuracy
	10 ... 999.9 hPa	0.1 hPa	± 1.5 hPa
	1000 ... 1100 hPa	1 hPa	± 2 hPa

UV A 290 ... 390 nm	Measuring range	Resolution	Accuracy
	0 .... 1999 µW/m²	0.1 µW/m²	±(4% of measured value + 2 digits)
	2 ... 20 mW/m²	0.01 mW/m²	

External temperature (Pt1000 input)	Measuring range	Resolution	Accuracy
	-10 ... 70 °C / 14 ...158°F	0.1°C / 0.18	± 1.2°C / 2.16°F

Volume flow	Measuring range	Resolution
	0.024 ... 3600 cmm	0.001 cmm
		0.01 cmm
		0.1 cmm
		1 cmm

Dew point	Measuring range	Resolution
	-25.3 ... 49°C / 13.54 ... 120.2°F	0.1°C / 0.18°F

Wet bulb temperature	Measuring range	Resolution
	-5.4 ... 49°C / 22.28 ... 120.2°F	0.1°C / 0.18°F

More information

More product info

Similar products

Subject to change

Heat stress index	Measuring range	Resolution	Accuracy
	0 ... 100°C / 32 ... 212°F	0.1°C / 0.18°F	± 2°C / 3.6°F

Windchill	Measuring range	Resolution	Accuracy
	-9.4 ... 44.2°C / 15.8 ... 111.56°F	0.1°C / 0.18°F	± 2°C / 3.6°F

Height above sea level	Measuring range	Resolution	Accuracy
	-2000 ... 9000 m / -6561 ... 29527 ft	1 m / 3 ft 3"	± 15 m

General technical data for the anemometer

Display	LC display
	8 mm character height
Measurement functions	Wind speed / temperature
Display parameters	Humidity / temperature
	UV
	Air pressure
	Volume flow
	Dew point
	Wet bulb temperature
	Windchill
	Heat stress index
	Height above sea level
	External temperature over Pt1000
Power supply	CR2032 3V batteries
Current consumption	ca. 5-mA
Operating conditions	0 ... 50°C / 32 ... 122°F / max. 80% r.H.
Dimensions	120 x 45 x 20 mm / 4.7 x 1.7 x 0.7"
Weight	ca. 160 g / < 1 lb