

# VOLTCRAFT®

## VOLTCRAFT® - TOP PERFORMANCE IN EVERY WAY

"Since 1982, our product range has been dynamically adapting to the constant changes in the industry. We commit to offering first-class quality to our customers while delivering an excellent cost-performance ratio. This philosophy remains the cornerstone of Voltcraft's success."

# UM5/1 200 ENVIRONMENTAL METER

CE

VERSION 12/21

Nº 2149778

This product is designed to measure the wind speed (with the air flow rate) and the temperature of the ambient air and components in degrees Celsius (°C) or Fahrenheit (°F) (type K temperature sensor). The wind speed is displayed in five different units. Average, minimum and maximum values can be shown on the display. The meter has an automatic power-off function, which can be disabled if desired.

Measurement values can be frozen for extended viewing using the data hold function. The meter is powered by a 9 V block battery. The product is designed to take several different measurements. The environmental meter combines 5 measuring devices in one unit: Anemometer Luxmeter Sound level meter Thermometer Hygrometer. It is designed to take reference measurements.

The sensors for light intensity, temperature, humidity and wind speed are equipped with a connection cable and can be used away from the meter. This enables you to easily take measurements on objects which are difficult to access. The meter features a built-in microphone for measuring the sound level. The light sensor is fully cosine-corrected for sideways light incidence. Temperature and humidity measurements can be taken at the same time as sound level, wind speed and light intensity measurements.

The units for temperature, wind speed and light intensity measurements can be changed. The meter can take the following measurements:

Sound level 30 - 130 dBA

Light intensity 0 - 20000 Lux / 0 - 20000 Fc

Wind speed 0.4 - 30.0 m/s

Air Temperature -30 °C to +60 °C/-22 to 140 °F

Temperature -200 to 1372 °C/-328 to 2502 °F (meter) (0 to 250 °C for temperature sensor)

Relative humidity: 0 % to 100 %

The meter is suitable for a wide range of scenarios in factories, schools, offices and homes. The product is not intended for medical or commercial use.

This product is intended for indoor use only. Do not use it outdoors. Contact with moisture (e.g. in a bathroom) must be avoided under all circumstances. Measurements must not be taken outdoors in wet or rainy conditions.

## HIGHLIGHTS

**5-in-1 Sound Level Meter,**

**Light Meter Humidity & Temperature Meter,  
and CFM/CMM Thermo-Anemometer //**

**5 Meters work simultaneously //**

**Large LCD with backlight //**

**Display Sound, Light, Type K Temperature,  
Humidity & Temperature,**

**plus Air velocity & Air Flow simultaneously //**

**USB Interface //**



# TECHNICAL DATA

<b>a) Unit</b>	
Power supply	1x 9 V block battery
Current consumption	Approx. 19 mA
Standby power consumption	40 $\mu$ A (when switched off)
Low battery level indicator	From 6.9 V
Operating conditions	0 to +50 °C , <80 % relative humidity (non-condensing)
Storage conditions	-10 to +60 °C , <80 % relative humidity (non-condensing)
Dimensions (W x H x D)	62 x 259 x 50 mm
Weight	282 g (meter without accessories)
Supported operating systems	Windows® 2000, XP Home, Pro, SP1, SP2, SP3 (32-bit), Vista™ (32/64-bit), 7 (32/64-bit), 8 (32/64-bit), 8.1 (32/64-bit), 10 (32/64-bit)
<b>b) Sound level measurements</b>	
Measurement range	30 - 130 dBA
Resolution	0.1 dB
Accuracy	$\pm$ 3.5 dB
Frequency range	31.5 Hz - 8 kHz
Standard	EN 61672 Class 2
<b>c) Light intensity measurements</b>	
Measurement range	20, 200, 2000, 20000 Lux
Resolution	0.01, 0.1, 1, 10 Lux
Accuracy	$\pm$ 5 % $\pm$ 10 d
<b>d) Temperature measurements (type K sensor)</b>	
Measurement range	-200 to +1372 °C -328 to +2502 °F
Resolution	0.1 °C or °F
Accuracy	-99.9 to 99.9 °C (-148 to 212 °F): $\pm$ [1.5 % rgd +1 °C (1.8 °F)] -200 to -100 °C (-328 to -148 °F): $\pm$ [1.5 % rgd +2 °C (3.6 °F)] 100 to 1372 °C (212 to 2502 °F): $\pm$ [1.5 % rgd +2 °C (3.6 °F)]
Units	°C/°F
Measurement range	0 - 250 °C (supplied temperature sensor)
<b>e) Air temperature measurements</b>	
Measurement range	-30 to +60°C -22 to +140 °F
Resolution	0.1 °C or °F
Accuracy	10 to +30 °C (50 to +86 °F): $\pm$ 1 °C ( $\pm$ 1.8 °F) -30 to +9.99 °C (-22 to +50 °F): $\pm$ 2 °C ( $\pm$ 3.6 °F) 31 to +60 °C (88 to +140 °F): $\pm$ 2 °C ( $\pm$ 3.6 °F)
Units	°C/°F
<b>f) Humidity measurements</b>	
Measurement range	0 % to 100 % (relative humidity)
Resolution	0.1 % (relative humidity)
Accuracy	$\pm$ 3.5 % (relative humidity)

<b>g) Wind speed measurements (anemometer)</b>	
Measurement range	0.40 - 30.00 m/s    80-5900 ft/min    1.4 - 108.0 km/h    0.9 - 67.0 mph    0.8 - 58.0 knots
Resolution	0.01 m/s    1 ft/min    0.1 km/h    0.1 Mph    0.1 knots
Accuracy	$\pm 3\% \pm 0.20$ m/s    $\pm 3\% \pm 40$ ft/min    $\pm 3\% \pm 0.8$ km/h    $\pm 3\% \pm 0.4$ mph    $\pm 3\% \pm 0.4$ knots
<b>h) Air flow rate measurements (CFM/CMM)</b>	
Measurement range	0 - 999.900 CFM    0 - 999.900 CMM
Resolution	0.001 - 100 CFM    0.001 - 100 CMM
Accuracy	As a function of speed and surface area

## PACKAGE CONTENT

Environment meter // Wind cover // K-type temperature probe // K-type temperature probe // Light detector probe //  
Anemo probe // Humidity and temperature probe // USB cable // Tripod // 9 V battery // PC software CD //  
Carrying bag // Operating instructions //

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