

HANDHELD **VANE** **ANEMOMETER**

RAW



Handheld vane anemometer RAW is a precise microprocessor device intended for measuring and recording air velocity, flow volume and temperature of a gas stream in open spaces and tunnels.

Intrinsically safe version may be used in potentially explosive atmospheres (gases and dust) in compliance with the following marking:

I M 1 Ex ia I Ma

II 1G Ex ia IIC T4 Ga

II 1D Ex ia IIC T71°C Da

and has been designed for use in both methane and non-methane fields in mines, in workings of "a", "b", "c" methane explosion risk class and in "A", "B" type coal dust explosion risk class. **Anemometer may be equipped in a bar, up to 2 m long, facilitating measurements in places with difficult access.**

**Anemometer has CE type test certificate
certificate number: FTZÚ 07 ATEX 0041**

Functions:

- Measuring velocity of gas stream
- Calculating volumetric flow for a given cross-section.
- Calculating mean flow rate for 2 s up to 16 h.
- Temperature measurements down to accuracy of 0.1°C.
- Recording gas stream velocity every 1 s for 170 h.
- Recording temperature every 128 s for 170 h.
- Minimum 180 h of continuous operation at full battery load.

Intended use

- Ventilation measurements in mines.
- Air flow velocity measurements in Z0 and Z20 gas or/and dust explosion risk zones e.g. laboratory and industrial extractors for hazardous substances (varnishes, gases, combustible liquid vapours).
- Measurements of ventilation ducts in air-conditioning devices.
- Inspection of flue ducts in residential buildings.

Structure

The anemometer consists of a very lightweight measurement rotor in a steel protective ring, connected to a housing made from durable plastic, with a backlit LCD screen and keyboard.

Technical data

Measurement ranges for

flow:	0.2 ÷ 20 m/s
volume stream:	0 ÷ 9999 m ³ /s
temperature:	-20 ÷ + 40 °C

Measurement accuracy for

flow:	1 %
temperature:	0.5 °C

Memory for

flow:	600 000 samples (ca. 170 h of recording)
temperature:	5 000 temperature measurements.

Measurement frequency for

flow:	1 measurement per second
temperature:	1 measurement in 128 seconds

Operation time after battery

loading:	min. 180 h
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Operating temperature: -20 ÷ + 40 °C

Allowable relative ambient air humidity: 0 ÷ 95 %

Enclosure protection rating: IP65

Dimensions (h x w x l): 300 x 100 x 60 mm

Weight: 0.8 kg

Package content

- anemometer;
- power pack;
- user manual;
- EC declaration of conformity;
- manufacturer's calibration certificate.

Manufacturer

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