





Order No.

The measurement principle

allows, compared to the classic

variable dimensions with highest

anemometers, an inertia-free

The measurement values can

be output digitally and/or in

The serial or analogue output

alternatively as instantaneous

value or as gliding mean value with selectable time frame.

If necessary, the instrument is

critical ambient temperatures.

malfunction, caused by icing,

is minimized. The sensor arms

and the ultrasonic sensors

as well as housing parts are

\* only in HD (half duplex)

heated.

operation

EP 1 448 966 B1

US 7,149,151 B2

Patented

Thus, the possibility of

automatically heated in case of

of the data is carried out

measurement of running

precision and accuracy.

analogue form.

4.3871.xx.xxx

### **Technical Data**

Velocity Measuring range Resolution

Accuracy

Direction Measuring range Resolution

Accuracy

Virtual Temp. Measuring range Resolution Accuracy

Data output digital Interface Baud rate Output Output range Status signal

#### Data output analogue

Electr. output for WV, WD Current output Voltage output resolution

## General

Bus operation Operation voltage Electronic with heating heating power can be limited via software to several other max. power consumptions Electr. connection Housing

option

Protection Dimension Mounting Weight

Instruments for: METEOROLOGY HYDROLOGY WATER QUALITY **AIR QUALITY** INDOOR CLIMATE VENTILATION

0-60 m/s 0.1 m/s (standard) 0.01 m/s (selectable) ±0.2 m/s rms (@ < 5 m/s) ±2% rms (> 5 m/s)

0-360° 1° (standard) 0.1° (selectable) ±2°@v>1m/s

-50 ... +70 °C 0.1 K ±2 K

RS 485 / 422 1200-921600 Bps Instantan. values, mean values 0.1 Hz ... 100 Hz Heating, distance error, distance temperature

0(4) ... 20 mA 0(2) ... 10 V max. 300  $\Omega$  load min. 2000  $\Omega$ 16 bit

Up to 99 instruments

8-60 V DC or 12-42 V AC/1.2 VA 24 V AC/DC, max. 250 VA

8 pol. plug Aluminium, anodised, seawater-resistant hard-anodized for offshore application IP 67 Ø 200 x 129 mm mast tube 1.5" approx. 2 kg

KRITECH



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# Ultrasonic Anemometer 2D »compact«

The combination of approved quality and advanced technology

- Meteorological excellent performance also for use in harsh environmental conditions
- compact
- rugged
- reliable

The Ultrasonic Anemometer compact serves for the 2-dimensional acquisition of the horizontal components of the wind velocity, the wind direction and the acoustic-virtual temperature.

The following measuring values are available:

- Orthogonal wind velocity vectors (X- and Y-distance)
- Scalar / vectorial wind velocity wind direction
- Acoustic-virtual temperature
- NMEA data protocol
- ASCII THIES FORMAT
- Analogue data output \*

The instrument is especially suited for the use in the fields of

- Regenerative power generation, wind power plants
- Industry automation
- Wind warning devices, building construction and building control
- Traffic control
- Marine application
- Meteorology
- Climatology