

ANEMOMETER First Class Intelligent

The new generation.

High quality class 0.5 Anemometer

Class A, B and S accredited acc. IEC 61400-12-1
for site assessment and power performance of WTG
with RS485 interface.

Thies
CLIMA



World wide the only class S
0.5 Anemometer accredited
according IEC 61400-12-1
(2005-12), ISO 17713-1,
Measnet



Anemometer

First Class Intelligent

Measuring of powercurves and site expert's report are the prior task for this instrument. This special pateted design is the result of long time experiences.

Optimised, dynamic performance also at

- low power instrument
- high accuracy
- high turbulence-intensity
- RS485 interface
- minimum overspeeding
- excellent linearity $r > 0.99999$
- low start up value
- up to 99 devices in bus system

The Anemometer is designed for the acquisition of the horizontal component of the wind velocity in the field of meteorology and environmental measuring technology, evaluation of location, and measurement of capacity characteristics of wind power systems. The Anemometer meets all requirements of IEC 61400-12-1 (2005-12) for an instrument of the accuracy class 0.5.

Special characters are a defined and optimised, dynamic behaviour also at high turbulence intensity, minimal over-speeding, and a low starting value.

The measuring value is averaged internally. The sensor calculates the standard deviation itself and determines the gust value according to WMO requirements. The data are put out in an ASCII formatted telegram.

Calibration coefficients and serial number are stored internally and can be requested via the serial interface.

The electronically regulated heating improves the availability during wintertime.

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Measuring range
Accuracy
0.3 ... 50 m/s
Linearity

Classification according to IEC 61400-12-1 (2005-12)

Electr. output

Frequency output disabled
Frequency output enabled

Delay distance
Survival speed

Operating voltage
Electronics

Heating
Ambient temp.
Electr. connection

Mounting
Fixing boring
Dimensions

Protection
Weight
Material

Housing
Cup star

Patented

With heating
W/o heating

0.3 ... 75 m/s

< 1% of meas. value or < 0.2 m/s
 $r > 0.99999$ (4 ... 20 m/s)

Class A 0.9
Class B 3.0
Class S 0.5

1082 Hz @ 50 m/s
RS485 half duplex
2400Baud...57600Baud 8N1
0.5 mA @ 12.0 V typ.
0.8 mA @ 12.0 V. typ.

< 3 m
80 m/s (@ 30 minutes)

3.3 ... 42 V DC
0.3 mA with 3.3 V
< 0,5 mA with 5 V
24 V AC/DC; 25 W

-50 ... +80 °C
8-pole plug connection
mast tube R 1"

Ø 35 x 25 mm
290 x 240 mm
IP 55
0.5 kg

alu anodised, seawater resistant
carbon-fibre-reinforced plastic

EP 1398637
EP 1489427



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