

ANEMOMETER First Class Advanced

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.

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 Advanced

Measuring of powercurves and site expert's reports are the prior task for this instrument. This special patented design is the result of long time experiences. Optimised, dynamic performance also at

- low power instrument
- high accuracy
- high turbulence-intensity
- minimum overspeeding
- excellent linearity $r > 0,99999$
- low start up value

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 available at the output as digital signal. It can be transmitted to display instruments, recording instruments, data loggers as well as to process control systems.

For winter operation the instrument (4-3351.00.000) is equipped with an electronically regulated heating, which guarantees a smooth running of the ball bearings, and prevents the shaft and slot from icing-up.

Optically scanned cup anemometer

4.3351.00.000
.10.

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

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

Electr. output
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
< 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



ADOLF THIES GMBH & CO KG
Meteorology – Environmental Technology
Box 3536 + 3541
37025 Göttingen (Germany)
Phone ++49 551 7 90 01-0
Fax ++49 551 7 90 01-65
E-Mail info@thiesclima.com
www.thiesclima.com

