CaTeC
Turfschipper 114 | 2292 JB Wateringen | Tel. 0174 272330 | Fax. 0174 272340 | info@catec.nl | www.catec.nl

WIND SENSORS
First Class Advanced

The new generation.
Special designed for using in the field of wind energy.

Fulfills all specification according IEC 61400-12-1, MEASNET, CLASSCUP.

Wind Sensors
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**
- **digital output**
- **high turbulence-intensity**
- **minimum overspeeding**
- **small distance constant**
- **low start up value**

The wind transmitter 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 wind transmitter meets all requirements of IEC 61400-12-1 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	With heating
.10.	W/o heating
Measuring range	0.3 ... 75 m/s
Accuracy	
0.3 ... 50 m/s	‹ 2% of meas. value or ‹ 0.2 m/s
Linearity	r › 0.999 95 (4 ... 20 m/s)
Inclined flow	
- mean deviation from the cosinus line	‹ 0.1% (in the range ±20°)
- Turbulence effect	‹ 1% (in the range up to 30% turbulence intensity)
Electr. output	1080 Hz @ 50 m/s
Delay distance	‹ 3 m
Survival speed	80 m/s (max. 30 minutes)
Operating voltage	3.3 ... 42 V DC
Electronics	0.3 mA with 3.3 V
	‹ 0,5 mA with 5 V
Heating	24 V AC/DC; 25 W
Ambient temp.	-50 ... +80 °C
Electr. connection	8-pole plug connection
Mounting	onto mast tube R 1"
Fixing boring	Ø 35 x 25 mm
Dimensions	290 x 240 mm
Protection	IP 55
Weight	0.5 kg
Material	
Housing	alu, anodised
Cup star	carbon-fibre-reinforced plastic
Patented	EP 1398637

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

TÜV CERT DIN EN ISO 9001 : 2000 08 100 971688
TÜV CERT DIN EN ISO 14001 : 2005 08 104 971688

010291/05/08