
Digital Anemometer

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ADOLF THIES GmbH & Co. KG

Hauptstraße 76
Box 3536 + 3541
Phone ++551 79001-0
www.thiesclima.com

37083 Göttingen Germany
37025 Göttingen
Fax ++551 79001-65
info@thiesclima.com

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1 Model

The Digital Anemometer consists of a wind transmitter with firmly connected cable, a display instrument, and a transport case. The cable is connected to the display instrument by means of a plug.

The wind transmitter is made of corrosion-free materials (aluminium, plastics).

The display instrument is made of sturdy plastic. The button for function is installed in a way that an easy operation is possible.

The compartment on the back side contains a 9V-dry battery for power supply.

2 Application

The „Digital Anemometer” serves for the measurement of wind speeds, and is suited for mobile use.

Remark:

In order to achieve an exact measurement of the horizontal wind speed, please hold the wind transmitter in vertical position.

Attention :

Operation and storing under weather conditions is permissible only in vertical position, as otherwise water can get into the instrument

Please protect the display instrument from precipitation.

3 Display

The following measuring values are indicated on the 3-digits LCD-display:

- Wind speed as instantaneous value
- Wind speed as 10 seconds gliding mean values

In addition, the following status reports are indicated on the LCD-display:

- Battery status „LOBAT “ (acoustic signal in addition)
- Exceeding of measuring range: „199.9 “
- Operating mode gliding mean value: „+“
- Gliding mean value in calculation: „+“ blink

4 Operation

Connect the wind transmitter to the display instrument by means of a cable.

Hold the wind transmitter into the air flow.

Switch the display instrument on by pressing the operation button.

Switching-on :

When pressing the button shortly the display starts in the mode “instantaneous value”, which is confirmed by a beep.

Change-Over of Mode:

Further (brief) activations of the button make the display change between “instantaneous value” and “mean value”. Each button pressing is confirmed by a short beep.

Switching-off:

The switching-off is carried out either automatically 60 seconds after the wind transmitter has stopped, or by pressing the button longer than 3 seconds.

Remark:

When switching the instrument on the formation of the gliding mean value starts automatically. After a calculation phase of 10 seconds, in evidence by the blinking sign “+” in the LCD-display, the current gliding mean value is available.

5 Maintenance

After appropriate operation/mounting the instrument works maintenance-free. Heavy pollution can lead to adhesion in the slit between the rotating and stationary parts of the wind transmitter. This slit must always be kept clean.

Battery Replacement

When the battery voltage is insufficient, in the display appears “LOBAT”. In this case, the battery must be replaced.

A battery compartment is situated on the back side of the instrument. When this compartment is open, the battery is visible, and can be replaced with a new one.

6 Technical Data

Description	Techn. Data
Wind Transmitter	
Measuring Range	0,5 ... 50 m/s
Accuracy	± 3% of meas. value or ± 0,5 m/s
Electr. output	2 ... 630 Hz
Cable length	0,5 ... 1,5 m (helix cable)
Dimensions	Ø 135 x 270
Weight	250 g
Ambient temperature	-30 ... +70°C (ice-free)
Protection	IP 54
Display Instrument	
Accuracy	1 Digit
Resolution	0,1 m/s
Measuring value	Wind speed as instantaneous value or 10 s gliding mean value:
Display Instrument	LCD – display 3 digits, 7 segments, 11,5 mm high
Display	
	Dimension m/s
	Battery status LOBAT
	Exceeding of measuring range 199,9
	Identification of gliding mean value „+“
	Gliding mean value in calculation „+“ blinking
General	
	µC-Technology Compensation of responsiveness Battery control
Current supply	9 V-, alkali-manganese battery
connection	5 – pole plug
Ambient temperature	0 ... 60 °C
Dimensions	145 x 80 x 35 (l x b x h)
Weight	190 g
Protection	IP 50
Transport case	
Material	Plastics
Dimensions	420 x 330 x 130 (l x b x h)
Weight	2 kg

7 Accessory (optional)

The following accessories are available for the Digital Anemometer:

Telescope Serves as extended handhold of the wind transmitter in order to carry out measurements also at places difficult to reach.	4.3405.50.007	length: 0,45 ... 1,45 m
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Replacement battery 9V	200 030	TYPE: E-block, 6LR61
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Certificate of Compliance acc. to DIN 500-49-2.3	T435XXXX 2.3	16 measurement points in the range from 1 to 16 m/s
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