ombra W1-Wh
Wind sensor
Order No.: 410 203

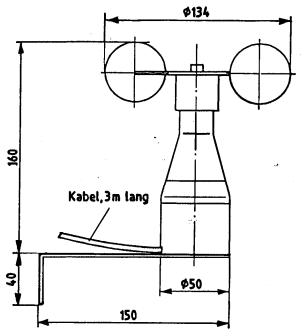
Image

Original colour white!

Product description

The wind sensor ombra W1-W measures the wind speed and makes it available in the form of a pulse output. Together with the ombra W2 weather sensor, the measured wind speed is made available to the LONWORKS® network.

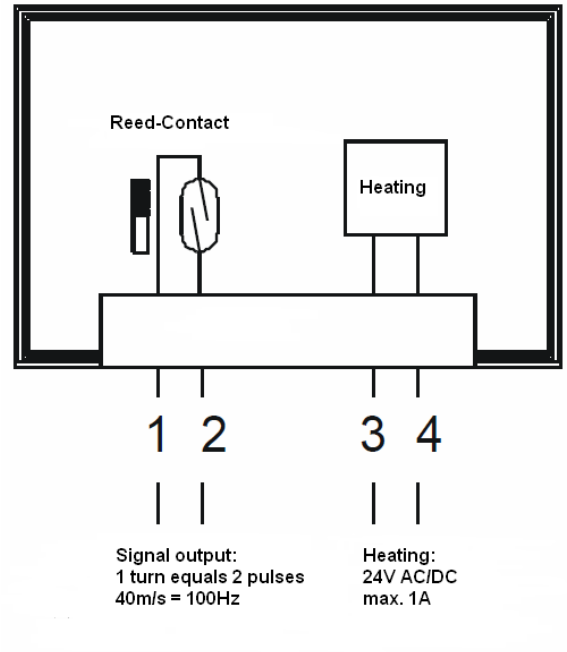
The wind sensor is equipped with an internal heating, to ensure proper operation down to -30°C.



Maßbild

Dimensional drawing (in mm)

Terminal diagram



The wind sensor is supplied with a fixed cable connection. The two conductors are connected to the weather sensor ombra W2 (cf. also data sheet on the ombra W2 weather sensor).

spega Order information

Order number	Description
410 203	*ombra W1-Wh* Wind sensor for ombra W2
411 202 C	*ombra W2* Weather sensor

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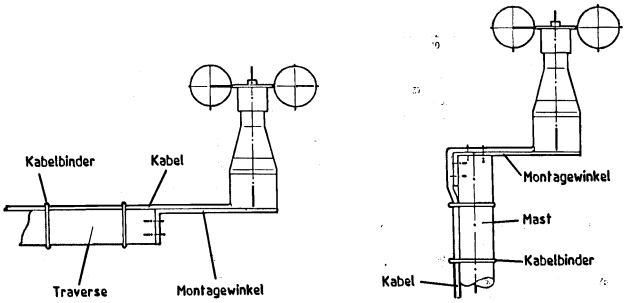
Assembly instructions

1 The wind sensor is assembled with the help of the angle bracket on the external facade or on a mast. Note that horizontal calibration must be carried out.



2 The device must be installed in such a way that it allows easy recording of the measured values. On flat roofs, the wind sensor should be set up in the middle of the roof, and not at the edge, for example, to eliminate any influence of predominant wind directions.

3 The measured value cable is attached as close as possible to the beam, for example, by means of clips, cable binders or similar fastening material so that, in the event of higher wind speeds, the cable is not destroyed as a result of flapping or becoming frayed.

4 During assembly, observe all measures to protect the device against overvoltage.

Electrical devices must be assembled and installed by trained personnel only.

Please observe local standards, guidelines and regulations when planning and installing electrical devices.

The device specifications given in this document must be adhered to.

Operation

Operation/cleaning:

If assembled properly, the device requires no extra maintenance during operation. In the wind sensor, severe air pollution can cause blockage of the slot between the rotating and stationary parts. This slot must always be kept clean. The device may only be cleaned with a damp (not wet) cloth. Scouring, scratching or sharp objects or detergents must not be used!

Notes

Any parties responsible for project planning and commissioning must be familiar with LONWORKS® technology.

Technical data

Data acquisition	
Measuring range	0,5...40m/s
Precision	±0,5m/s resp. ±5% of measuring value
Resolution	0,4m - windway
Max. load	60m/s temporary
Inputs/outputs	
Reed contact	1 pulse output for weather sensor ombra W2, switching capacity 10VA, max. 42V DC, max. 0,4A
Heating	24 V AC/DC, max. 1,0A
Connections	
Lead	LiYY 2 x 0,5mm², 3m long
Housing	
Material	Plastics ABS white
Dimensions	160 x 134 x 134 (H x W x D)
Type/location of installation	Mast or wall mounting with enclosed mounting angle
Ambient conditions	
Operating temperature	-25℃ ... +60℃
Storage temperature	-25℃ ... +60℃
Transportation temperature	-25℃ ... +60℃
Rel. humidity	5% ...93% (without condensation)
Installation height	Up to 2000 m above sea level
Safety	
Electrical isolation	SELV (EN 60 950)
Type of protection	I (IEC 536 / VDE 106 part 1)
Standards/guidelines	
Device safety	acc. to EN 50 090-2-2
Certification	CE

Characteristic curve