

Wind Transmitter

for duct application

Instruction for use 4.3311.30.000 / 4.3311.32.000



Range of Application

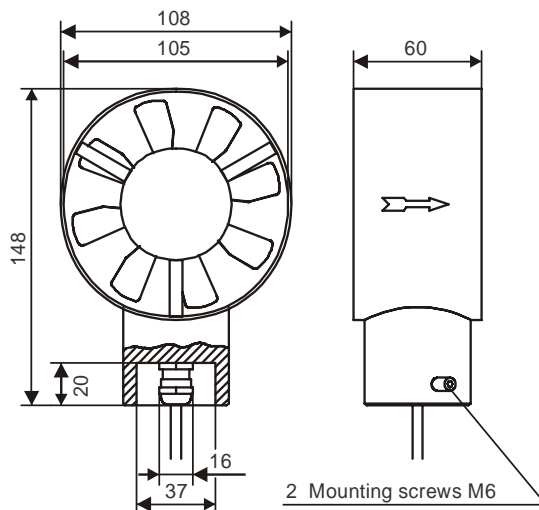
The **Wind Transmitter** is employed to determine the velocity of non-aggressive gases. Due to the form of construction, the directional component striking the fan-wheel vertically is measured. For this reason, these instruments are primarily used in wind tunnels or ventilation shafts with directed air flow. The measured values is given as an electrical signal, Thus the value can be transmitted to indicators, recorders etc. situated elsewhere.

Technical Data

Order-No.	4.3311.30.000	4.3311.32.000
Measuring range	< 0,25 ... 20 m/s	< 0,25 ... 20 m/s
Resolution	0,083 m wind run	0,083 m wind run
Electrical output	0 ... 240 Hz / 15 V DC	0 ... 240 Hz / 24 V DC
Connection	TTL-input	TTL-input
Operating voltage	15 V DC / 0,3 mA	24 V DC / 0,3 mA

Ambient temperature	: -20 ... + 80°C, ice free
Cabling	: 1 m cable
Mounting	: onto a mast tube (Ø max. 36 mm)
Weight approx.	: 0,9 kg
Protection	: IP 52

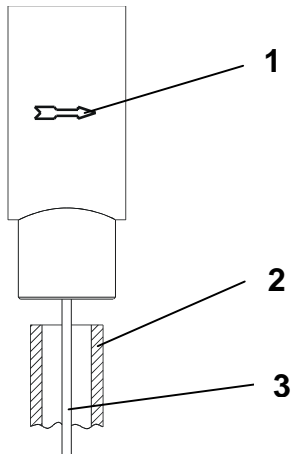
Dimensions



Basic Mode of Operation

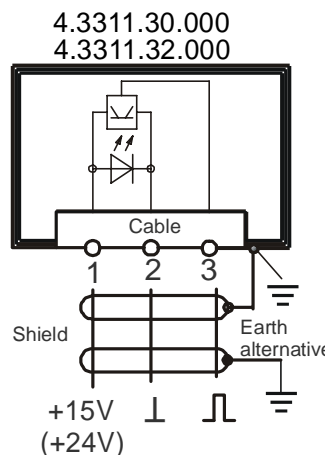
The fan-wheel is rigidly connected to the slotted disc. A light barrier scans and a pulse frequency proportional to the number of rotations of the fan-wheel results

Preparation for use



The instrument is designed to be mounted to a mast tube (2) with an external diameter of a maximum of 36 mm. Insert the wind velocity transmitter onto the tube. After you have threaded the measuring cable (3) through the tube, set the instrument up in such a way the air flow strikes the fan-wheel veritably. The direction of the air flow is indicated by an arrow (1) on the side of the protection tube.

Connection Diagrams



Maintenance

Errors could result from very dust bearings or from large dust particles flying against the fan-wheel and bending the blades. This would result in a change in the instrument constant. The instrument would have to be returned to the manufactures.

Occasional blowing-out (jet not to powerful) or dusting with a soft brush is advisable. The guarantee expires if the instrument is open!



ADOLF THIES GmbH & Co. KG

Hauptstraße 76 37083 Göttingen Germany
P.O. Box 3536 + 3541 37025 Göttingen
Phone ++551 79001-0 Fax ++551 79001-65
www.thiesclima.com info@thiesclima.com



- Alterations reserved -