

# Vwind-Si

Wind Speed Sensor for Si-RS485TC-2T-v



## Short Description

Our wind speed sensor Vwind-Si comes equipped with a high-quality fibre-reinforced plastic cup star and with a weatherproof cable. Thanks to the use of top quality components the sensors achieve high accuracy and are ideal for use in field environments (PV plants).

## Technical Data

Type	Vwind-Si
Sensor Type	Cup Star Anemometer
Signal	Reed-Relais, 2.5 Hz/(m/s)
Measurement Range	0.9 to 40 m/s (60 m/s for short time)
Measurement Uncertainty	0.5 m/s or 5% of Value
Pin Assignment	Pin 1: Reed-Relais Pin 2: Reed-Relais
Connector	Binder, Series 712
Weight	Approx. 350 g
Size (without Holder)	Ø 134 x 160 mm
Protection Level	IP 54
Operating Condition	-25 to +60°C (without icing)
Sensor Cable	Length: 5 m, PUR coated, shielded (LiYC11Y, 4 x 0.14 mm <sup>2</sup> )
Customs Tariff Number	90158020

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### Safety Instructions

The installation and assembly of electrical equipment must be carried out by electrically qualified persons. The sensor may not be used with equipment whose direct or indirect purpose is to prevent human death or injury, or whose operation poses a risk to humans, animals or property.

### Electrical Connection

This sensor is designed for connecting to the Si- sensor type Si-RS485TC-2T-v. For connecting, remove the protection cap of the 2-pole socket of the Si-RS485TC-2T-v and connect the Vwind-Si. To lock the cable connector, the threaded ring is tightened until it is 'finger-tight' (approx. 50 Ncm).

### Installation Instructions

Storing, mounting and operation under weather conditions is only allowed in vertical position, as otherwise water can get into the sensor. So an installation with roof inclination is not allowed.

No installation in wind protected areas or in wind shadow of any construction.

On flat roofs an installation in the middle of the roof is preferable.

The wind sensor must be integrated into the lightning protection system.

The sensor cable must be fixed at the mounting construction.

The screws for fastening the sensor at the mounting angle are tightened with a maximum of 1.5 Nm.

### Maintenance

Heavy air pollution can clog up the slit between the rotating and the stationary part of the wind sensor. This slit must be kept clean.

After longer use abrasion might occur at the bearings and the reed relays. This can cause a higher starting torque or missing output impulses. Therefore we recommend a yearly maintenance and checking of the rotating ability of the cup star.

### User information

The sensor is designed for the measurement of natural wind speed. The warranty is for 1 year from the date of the invoice for the intended use. M&T does not accept any liability for possible losses or damage due to the incorrect usage of the sensor. Liability for consequential damages is excluded.