

TruSense

Input-Module

WSWD-TS



The TruSense Input modules are an I2C based module with memory and the interface to the sensors. When an Input module is connected to a TruSense logger the logger reads the Input Module's memory and this gives the logger all the information on the sensors that may be attached to the module.

The WSWD-TS module has a Wind speed and wind direction sensor permanently connected to the module.

The wind speed is a reed switch with the speed taken over a 3 second time.

The Wind direction is a 10K potentiometer with a 20 degree dead band at north. This is electronically dampened to give a good average wind direction. Time to move from north to south is about 2.5 minutes.

Specifications

Size

Dimensions	190x160x450mm
Weight	?
Material	Aluminium and Stainless Steel.

Environment

Protection	IP56, outdoor use.
Operating Temp.	-10°C to 70°C
Storage temp.	-20°C to 75°C
May stop operating correctly due to freezing below 0°C	

Wind Speed

Device	3 cup
Measuring Range	1.8 to 216 kph
Measuring interval	3 Seconds
Resolution	1 kph
Starting threshold	<5 kph
Accuracy tolerance	<2% above 36 kph

Wind Direction

Device	Vane
Range	0° ~ 360°
Accuracy	± 5°
Dead band	20° (350° ~10°)
Electronic damping	about 1° / second