

# TruSense

## Input Module

# WSWD-US-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-US-TS module is a ultrasonic anemometer for measuring wind speed and wind direction up to 144km/h

Ultrasonic anemometers, use ultrasonic sound waves to measure wind velocity. They measure wind speed based on the time of flight of sonic pulses between pairs of transducers. The lack of moving parts makes them appropriate for long-term use in exposed automated weather stations.



## Specifications

### Size

Dimensions	84dia x 120mm head only 110 dia x 290mm with mounting.
Weight	0.2Kg head only 0.65Kg with mounting
Material	ABS plastic and Aluminium.

### Environment

Protection	Ip65,
Operating Temp.	-30°C to 60°C ice may effect accuracy.
Storage temp.	-50°C to 80°C
Humidity	0-100% ice may effect accuracy.

### Wind Speed

Device	ultrasonic sound waves
Range	0~144km/h (over 144km/h will show as 144km/h)
Resolution	0.36km/h
Accuracy	±3%

### Wind Direction

Device	ultrasonic sound waves
Range	0~359°
Resolution	1°
Accuracy	±3°