

Wind Speed Sensor



Wind speed sensor, also known as anemometer is a professional and intelligent measuring device designed for environmental and industrial applications, especially for areas such as PV Power Plants.

This Sensor measures wind speed by converting it into an electrical signal in m/s. The Wind speed sensor is designed to measure horizontal wind speed independently of direction.

The measuring electronic element in the wind speed sensor is the reed relay driven by the rotating magnet connected to the wind bowls.

Specifically tailored to meet the needs of PV Power Plant monitoring systems, it is resistant to harsh weather conditions. SEVEN offers an optional Heated Wind Speed model to prevent icing events.

Benefits and Features

- High Accuracy
- Fast & Simple to Install
- Free Software Update (for Modbus RTU)
- Long Lifetime
- SunSpec Compliant (for Modbus RTU)
- SEVEN Remote Setup Service
- SEVEN Customer Support
- 2 Years Warranty

Models

3S-WS-PLS-A

It is an anemometer designed to measure the wind speed in m/s with reed relay output. The housing is made of seawater resistant anodized aluminum, making the sensor extremely durable and resistant. It can be connected to SEVEN Irradiance Sensor or Sensor Box models, as well as data loggers and other receiver units supporting Pulse reading.



3S-WS-I-A

It is an anemometer designed to measure the wind speed in m/s with 4-20 mA output. The housing is made of seawater resistant anodized aluminum, making the sensor extremely durable and resistant. This model is compatible with all dataloggers with 4-20 mA input.



3S-WS-MB-A

It is an anemometer designed to measure the wind speed in m/s with Modbus RTU output. The housing is made of seawater resistant anodized aluminum, making the sensor extremely durable and resistant. This model is compatible with all dataloggers with Modbus RTU input.



Models

3S-WS-PLS-P

It is technically similar to 3S-WS-PLS-A model. The only difference is the housing, which is made of UV-Resistant ASA material. It can be connected to SEVEN Irradiance Sensor or Sensor Box models, as well as data loggers and other receiver units supporting pulse.



3S-WS-I-P

It is technically similar to 3S-WS-I-A model. The only difference is the housing, which is made of UV-Resistant ASA material. The housings are made of UV-resistant ASA material.



3S-WS-MB-P

It is technically similar to 3S-WS-MB-A model. The only difference is the housing, which is made of UV-Resistant ASA material.

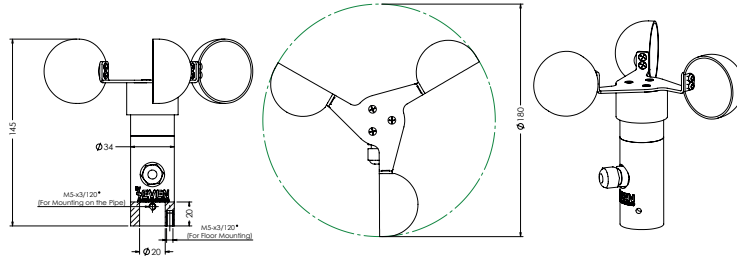


Technical Specifications

	3S-WS-PLS-A	3S-WS-PLS-P	3S-WS-MB-A	3S-WS-MB-P	3S-WS-I-A	3S-WS-I-P
Sensor Type	Cup Star Anemometer (Reed Switch)					
Measuring Range	0,9 to 60 m/s				0,9 to 50 m/s	
Accuracy	Below 5m/s 0.5 m/s and 10% of reading above 5m/s					
Resolution	0,1 m/s					
Threshold	0,9 m/s					
Survival Speed	60 m/s				50 m/s	
Data Output	Reed Relay		Modbus RTU - RS485		Analog (4-20 mA)	
Communication Protocol	-		Modbus RTU		-	
Power Supply	-		12 to 30 V DC			
Cable's Length & Features	3 m LIYY Cable, UV and Weather Resistant		3m LIYYC11Y PUR Cable, UV and Weather Resistant			
Operating Temperature Range	-40°C ... +85°C (Ice Free)					
Dimensions	Ø 180 x 145 mm	Ø 136 x 151 mm	Ø 180 x 145 mm	Ø 136 x 151 mm	Ø 180 x 145 mm	Ø 136 x 151 mm
Transducer Box Dimensions	-		82 x 80 x 55 mm (L x W x H)			
Weight	0,34 kg	0,20 kg	0,34 kg	0,20 kg	0,34 kg	0,20 kg
Body Material	Anodized Aluminum	ASA	Anodized Aluminum	ASA	Anodized Aluminum	ASA
Cup Material	ABS	ASA	ABS	ASA	ABS	ASA
Mounting Method	Pipe or Ground Mounting					
Standard	Compliant to IEC 61724-1:2021					
Origin	TÜRKİYE					

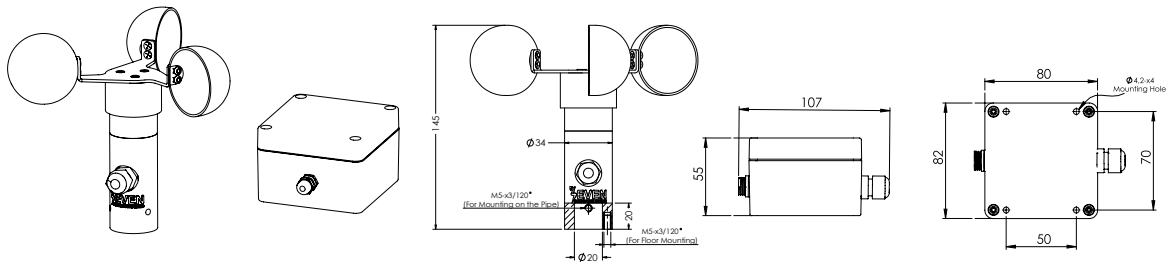
Technical Drawings

Technical Drawing of 3S-WS-PLS-A



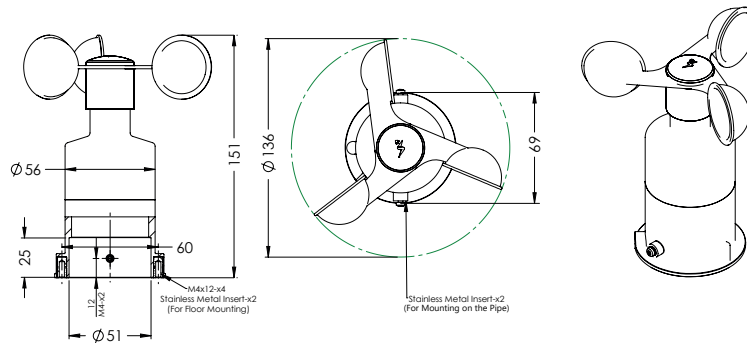
Note: All dimensions are in mm.

Technical Drawing of 3S-WS-I-A, 3S-WS-MB-A



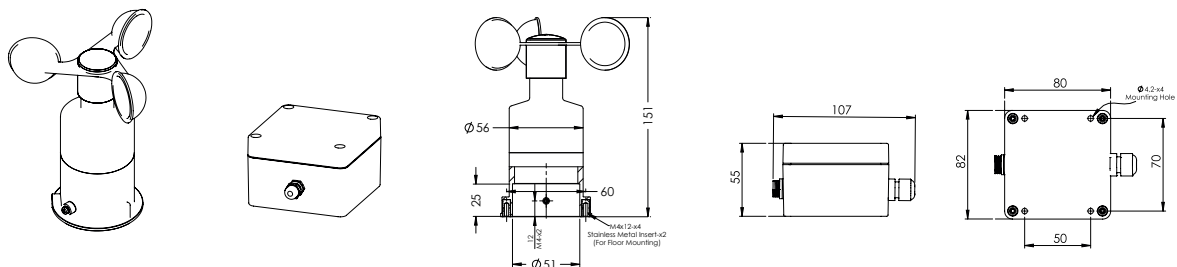
Note: All dimensions are in mm.

Technical Drawing of 3S-WS-PLS-P



Note: All dimensions are in mm.

Technical Drawing of 3S-WS-I-P, 3S-WS-MB-P



Note: All dimensions are in mm.