

Wind Direction Sensor



The Wind Direction Sensor is part of the SEVEN meteorological sensor range, which includes professional and intelligent measuring sensors with a digital or analog interface for environmental and industrial applications such as PV plants.

It is a measuring transmitter used for the measurement of the horizontal wind direction.

The measured horizontal wind direction data are transmitted as analog or digital output signals to the data loggers and receiver units according to the input requirements.

SEVEN products use reliable and high-quality components to provide accurate meteorological information in environmental and industrial applications.

They are specially designed according to the requirements of PV plant monitoring systems.

Benefits and Features

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

Models

3S-WD

It is a measuring transmitter with potentiometer output used for the measurement of the horizontal wind direction. The measuring values are transmitted as ohmic resistance-signals. The wind direction is detected by a wind vane and is then transmitted to a potentiometer. It can be connected to SEVEN Irradiance Sensor or Sensor Box models with a 3-pin female connector.



3S-WD-I

Wind direction sensors with analog 4-20 mA output specially designed for advanced environmental conditions. The outer parts of the wind direction sensor are made of corrosion resistant polyamide and aluminum materials. The analog 4-20 mA output is universally compatible with all other industrial systems.



3S-WD-MB

Professional and intelligent measuring sensors with a digital interface for environmental and industrial applications such as PV plants. The measured value can be transmitted to monitoring instruments, data loggers and other receiving units via the serial RS485 interface with MODBUS RTU protocol.

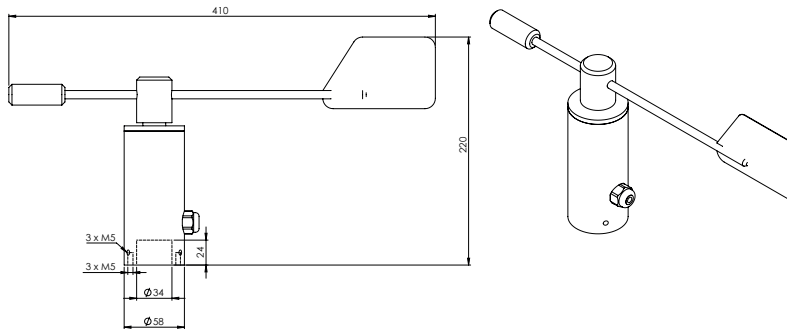


Technical Specifications

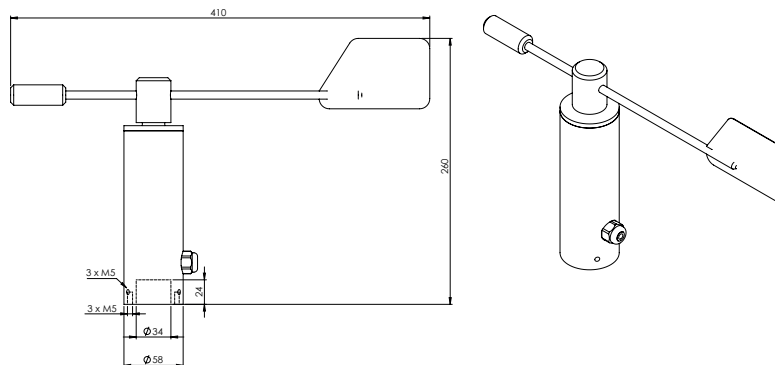
	3S-WD	3S-WD-MB	3S-WD-I
Sensor Type	Potentiometer		
Measuring Range	0 to 359°		
Accuracy	± 3°		
Resolution	1°		
Threshold	1 m/s		
Survival Speed	60 m/s		
Data Output	Potentiometer	RS485 up to 38400 Baud	Analog 4-20 mA
Communication Protocol	-	Modbus RTU	-
Power Supply	-	12 to 30 V DC	
Power Consumption	-	20 mA @ 24 V DC	30 mA @ 24 V DC
Electrical Connection	3 m LIYY Cable, UV and Weather Resistant	3 m LIYYC11Y PUR Cable, UV and Weather Resistant	
Operating Temperature Range	-40°C to +85°C (Ice Free)		
Dimensions	410 x 220 mm	410 x 260 mm	410 x 260 mm
Weight	0,6 kg		
IP Rating	IP 54 (Optional IP 65)		
Housing Material	Polyamide		
Vane Material	Aluminum		
Mounting Method	Pipe or Ground Mounting		
Standard	Compliant to IEC 61724-1:2021		
Origin	TÜRKİYE		

Technical Drawings

Technical Drawings of 3S-WD



Technical Drawings of 3S-WD-I, 3S-WD-MB



Note: All dimensions are in mm.