

WIND DIRECTION



Wind Vane

SS-WDS Wind Direction Sensor adopts a new magnetic induction design to detect the wind direction angle. It is compact and exquisite in shape, featured with a robust wind vane, a unique aero-cone design and efficient heating method, suitable for all kinds of harsh environments. It can be widely used in meteorology, ocean, environment, airport, port, agriculture, transportation and other fields.



Features

- Accurate wind direction sensors with low threshold.
- Built-in precision signal processing unit.
- New magnetic induction sensor design can effectively avoid the aging problem of traditional photoelectric encoder.
- Support RS485 digital signal output as well as pulse signal output (optional) and online calibration.
- Compact all-aluminum body and black glass fibre vane with anti-freeze and heating function for long time life to the heavy environmental conditions and strong winds.
- Design and performances addressed to meteorological applications

Technical Specifications

	SS-WDS-01	SS-WDS-02
Output	Analog: 0 – 5 V	RS485
Communication Protocol	-	Modbus
Resolution	1°	0.35°

Common Technical Specifications

Wind Direction	Measuring Range	0 ~ 360°
	Starting Threshold	<0.5 m/s
	Accuracy	± 2°
General Information	Outer diameter of the mounting pole mast	50mm/52mm
	Operating Power	Without Heater: 5 – 24VDC 20mA (typical) With Heater: 12VDC 1A (typical)
	Operating temperature when heating	-50 ~ 55 °C
	Storage temperature	-60~70 °C
	Material	Housing: Aluminum alloy Material Wind Vane: Black glass fiber nylon
	Dimensions	296(H) x 252(L)mm
	Weight	500g