



1. Wind Speed and Direction Sensor Model No WSD001

S/no	Parameter	Specification	Sensing Range/ Remarks
1	Measurement elements	Wind Speed & Direction	
2	Measurement component & Measurement range	Wind Speed	2 to 150 mph, 2 to 130 knots, 1 to 67 m/s, 3 to 241 km/h
		Wind Direction	0- 360 Deg C
3	Resolution	Wind Speed	1 mph
		Wind Direction	1 Degree
4	Accuracy	Wind Speed	±2 mph (2 knots, km/h, 1 m/s) or ± 5%, whichever is greater
		Wind Direction	±3% over Full Scale
5	Connectivity	<ul style="list-style-type: none"> ● GSM 3G/4G ● Wireless backhaul to Cloud. 	
6	Software and Data backup	Data Buffer Capacity up to 3 years	
7	Data Capture Frequency	Every 30 seconds	
8	Enclosure	Wind cups	
9	Stabilization Time	Stabilization Time on power outages < 5 minutes	
10	Visual Indication	LEDs on the Device for easy visual indications	
11	Products origin and certification	<ul style="list-style-type: none"> ● Product is Made in India ● Communications modules are FCC, PTCRB compliant ● All major components of sensors are CE certified 	
12	Operating Range		- 10°C to 70 °C
13	Software Solution	<ul style="list-style-type: none"> ● Solution to enable APIs for mobile apps ,Web services LED Display boards & Variable Display Boards ● APIs to provide <ul style="list-style-type: none"> ○ Status of Devices 	



14	Support System	<ul style="list-style-type: none"> ○ Wind Speed & Direction ● Alerts for outages ● Alerts for Device working on Battery/Mains ● Alerts for Wind Speed crossing the breakpoint level ● Remote configuration of Sensor
15	Element Management System	<ul style="list-style-type: none"> ● Device Listing & Details ● Device Availability ● Device Polling status ● Device Outage status ● API Usage Report ● Control on Email alerts for device downtime ● Weekly & Monthly trends ● Historical data
16	Data Analytics	Analysis of Wind Speed and Direction data
17	Data Collection	Data from Sensors sent to PAQS cloud located in India and available as secure REST APIs for IOT platforms/other applications.
18	Battery	Li-Ion Battery Backup of 8 hours



Wind Speed & Wind Direction Sensor