Parameters

ID	Parameter	Range	Resolution	Min. Detection	Working Principle	Expected Sensor Life
OZWSD_1	Wind Speed	0-40 m/s	0.1 m/s	0.1 m/s	Ultrasonic	3 years
	Wind Direction	0-359°	1°	1°		
OZRAIN_1	Rainfall Monitoring	N.A.	0.5 mm	0.5 mm	Tipping bucket	
OZN_1	Ambient Noise	Up to 140 dB	1 dB	0.5 dB	Capacitance	2 years
OZLI_1	Light Intensity	Up to 1,00,000 Lux	1 Lux	1 Lux	Photoconductivity	3 years
OZUV_1	UV Radiation	0.1-100,000 uW/cm²	0.1 uW/cm²	0.1 uW/cm²		
OZVLI_1	Visible Light Intensity	Upto 5000 Lux	0.1 Lux	0.1 Lux		
OZTEMP_1	Temperature	-40°C to 125°C	0.01 °C	-40°C	Solid State Semiconductor Sensing	2 years
OZHUM_1	Humidity	100% Rh	0.1%	0.1%		
OZPRES_1	Barometric Pressure	300-1100 hPa	0.18 Pa	300 hPa		

Note - If a custom range and resolution of a sensor is required, please contact our team.

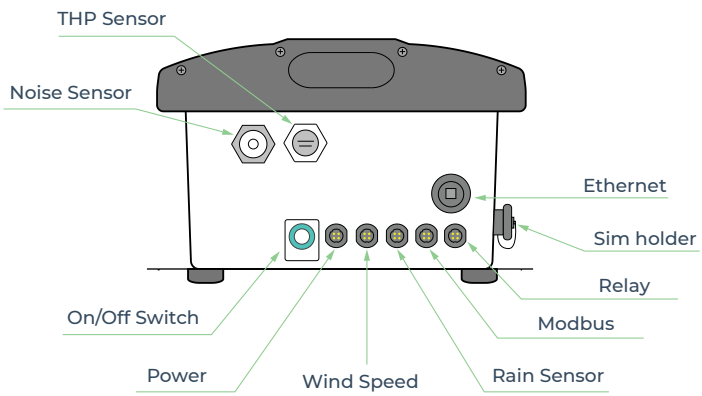
External Modules (optional)

Noise Sensor

Capacitance

Upto 140 dB

Specifications



General Specs

Size	360mm (H) x 328mm (W) x 200mm (D)
Weight	8.7 Kg (instrument weight)
Material	Aluminum Magnesium Alloy, Mild-steel (With Powder Coating), FRP
Certifications	CE & FCC Certified, PTCRB Certified Communication Module

Communication

Data Interval	2-30 (configurable) minutes
Data-push Protocol	HTTP post request to host-server
Data-pull	HTTP request on device IP
Firmware Updates	Over-The-Air Firmware Update
Standby Connectivity	GSM (2G / 3G / 4G) for remote diagnosis, FOTA updates, and cloud calibration

	Connectivity Options	Specifications
Wireless	GSM	Global 2G / 3G / 4G
	LoRa	868 MHz / 915 MHz
	LTE	CAT-M1
	NB-Iot	CAT-NB1
	Sigfox	868 to 869 MHz, 902 to 928 MHz
	Wifi	AP Mode and Station Mode
Wired	Ethernet	Static / DHCP Configuration
	Modbus	RS485 RTU / TCP
	Relay Output	2 Channel