



# Air Quality and Weather All in One Station

## Product Features

- Complete Set All In One Air Quality and Weather
- Internet of Thing (IoT) LPWAN Communications
- Wide Measurement Range
- High Precision, Fast Response.
- Renewable Energy Sources
- High Performance Controller

## Specifications

### Air Quality Sensor

Measured variable	
Temperature	-40 a 80°C
CO	0~50 ppm
NO2	0~5 ppm
SO2	0~5ppm
O3	0~5ppm
PM2.5	0~500ug/m <sup>3</sup>
PM10	0~500ug/m <sup>3</sup>

Operating temperature	-20 a 60°C
IP protection	IP65
Main material	ABS+Aluminium alloy
Response time	<15s

### Weather Sensor

Measured variable	
Wind Speed	0-60 m/s
Wind Direction	0-360°
Atmospheric temperature	-40 a 80°C 0.1 °C
Atmospheric Relative Humidity	0-100%RH
Atmospheric pressure	150-1100 hPa
Precipitation(Rain / hail / snow)	0-4 mm/min
Solar radiation	0-1750 W/m2
Illuminance (optional)	0-20 klux
UV radiation (optional)	100-200 kμW/cm2
Dust concentration (PM2.5,PM10) (optional)	0-2000 μg/m3

Update time	1s
Operating temperature	-40 a 80°C
IP protection	IP66
Main material	ABS+Aluminium alloy

### Controller and Communications

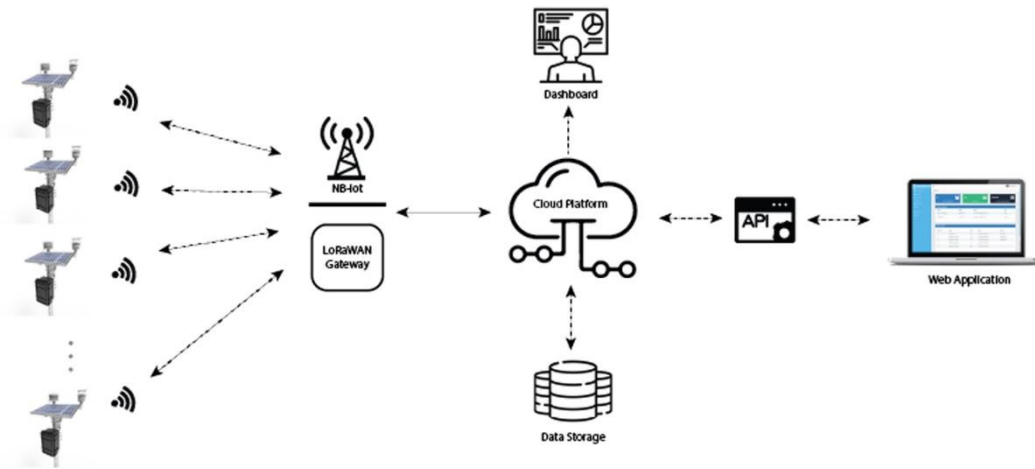
Microcontroller	16 Bit
Microcontroller Operating temperature	- 40 a 125°C
Communications*	LoRaWAN / NB IoT / Sigfox
*One selectable Communications or Support Redundant Communication (Options)	

Cloud Server Wireless communication	MQTT, Protocol etc.
IP protection	IP65

### Solar Power Supply

Solar cell	30 W
Battery Sealed Lead Acid type	12 V
- Capacity	12 Ah
Solar Charger Controller	12/24 Vdc
- Current Rating	10A





System Diagram

Dimension



High : 3 m.  
Option High : 2.5-6 m.