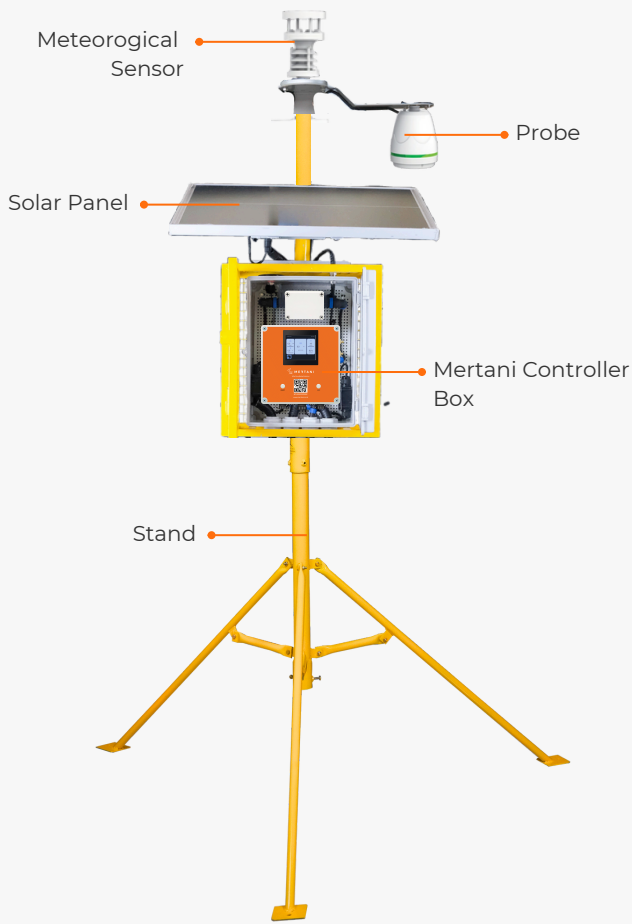


MERTANI AIR QUALITY MONITORING SYSTEM (AQMS)



Tentang Air Quality Monitoring System (AQMS)

MERTANI AQMS merupakan perangkat untuk melakukan pemantauan terhadap kualitas udara secara online (dalam jaringan), realtime (terus-menerus), dan akurat.

Spesifikasi Product

Measuring Factors	SO2, NO2, CO, CO2, O3, PM2.5, PM10, Meteorological parameters, TVOC (optional), Noise (optional), LED display (optional), PM2.5, PM10, NH3	
Particulate Module	Measurement Principle	Light Scattering Method
	Measuring Range	0-1mg/m ³
Gas Measurement Module	Detection Limit	≤5µg/m ³
	Measurement Principle	Electrochemical Method, Pump Suction Sampling
Power Supply	Measuring Range	SO2, NO2, O3: 0-500ppb; CO: 0-50ppm; (extensible)
	Detection Limit	SO2, NO2, O3: ≤5ppb; CO: ≤0.04ppm;
Dimensions	Supply Voltage	220VAC/12V battery (auto switching)
	Power	≤2.5W (without particulate heating)
Miscellaneous	Size (primary probe)	Φ230*310mm
	Weight (primary probe)	≤5 kg
	Operating Temperature	-30°C-50°C
Miscellaneous	Communication Mode	4G/APN
	Positioning Function	GPS Position
	IP Grade	IP55

Penerapan Air Quality Monitoring System (AQMS)

- Pemantauan udara di kota besar
- Pabrik dan zona industri
- Bandara
- Area pemukiman
- Situs konstruksi
- Pertanian dan kehutanan



Mertani Controller Box



Battery

- Internal battery up to 50.000 mAh
- Solar panel 20-50 WP
- External power supply DC 4.1 V

LCD Touchscreen

- Interval and calibration setting
- Graphic or text display
- HMI LCD Display Colored TFT Industrial with Touchscreen

Specification

- Industrial grade Ultra-Low Power MCU based on Cortex M4+
- Input digital sensor RS485 (Modbus), I2C, RS232, Serial TTL, one wire. Under development: SDI12
- Main material ABS
- Dimension 25x25x15 cm
- Operates from 2.7 V up to 5.5V
- Operational temperature 0°C to +85°C
- Weight 2 kg
- Internal memory 16 MB
- Extended industrial memory up to 256 MB
- Weather-resistant

Monitoring

- Realtime monitoring
- Data transmission interval (5 minutes, 10 minutes, 15 minutes, 30 minutes, 1 hour, 2 hours, and so on)

Connectivity

- GSM (2G, 3G, and 4G)
- WiFi and Bluetooth Low Energy (BLE)
- LoRa 920-923 MHz
- GPS/ GLONASS/ GALILEO

Number of Sensor Port

- 3 sensors (default)
- 10 sensors (extended)