

Indoor Air Quality Monitor System

Applications

- Hospitals and healthcare facilities
- Offices and commercial buildings
- Building Automation
- HVAC Air filtration Units
- Schools and universities
- Industrial and manufacturing facilities

LMR-AQM11



Note: This is a representational image

Environmental Parameters:



PM2.5



PM10



CO₂



Ozone



CO



NO₂



CH₂O



VOCs



Humidity



Temperature

Description

The Laminar AQM11 is an all-encompassing air quality monitoring system that features a range of sensors allowing for accurate measurement of various gases present in the air. This device can help individuals understand the quality of air they are breathing, and provide real-time Indoor Air Quality Index (IAQI) data to occupants in both Indian and USEPA standards.

LMR-AQM11 Elements

- Real-time monitoring and analysis of indoor air quality
- Wireless connectivity for remote monitoring and data analysis
- User-friendly interface for easy access to data and settings
- Cloud-based data storage and analysis
- Multi-sensor capabilities for comprehensive indoor air quality monitoring
- RS485 Modbus RTU protocol for easy integration with Building management Systems (BMS)

Features



Wi-Fi



Ethernet

Micro SD
StorageRS485
Modbus
RTUSync
ClockDownload
ReportConnect
USB

Technical Specifications

PARAMETER NAME	PARAMETER VALUE	
	LMR-AQM11	
SENSOR SPECIFICATIONS		
Target Gas	CO ₂ , PM10, PM2.5, CH ₂ O, O ₃ , TVOC, NO ₂ , Ambient Temperature, Humidity	
Air Quality Index (AQI)	Indian and USEPA Standards	
GAS SENSOR TYPES		
	Range	Accuracy
PM2.5	0~1000 µg/m ³	±15 ug/m ³ (when concentration is ≤100ug/m ³); ±15% (when concentration is >100ug/m ³)
PM10	0-100 µg/m ³	0-100 µg/m ³ : ±15µg/m ³ 101-1000 µg /m ³ : ±15%
CO ₂	0~5000 ppm	0~5000 ppm
CH2O	0~6.250 mg/m ³	± 0.03 mg/m ³ (when concentration is ≤ 0.2mg/m ³); ± 20% reading value (when concentration is >0.2mg/m ³)
TVOC	0~3 grades	-
O ₃	0~10 ppm	± 0.1ppm, when the concentration is ≤1ppm; ±20% full range, when the concentration is over 1ppm
CO	0~500 ppm	± 10% reading value
NO ₂	0.1~10 ppm	-
Ambient Temperature	-20~65°C	±0.5°C(0-65°C)
Humidity	0~100%RH	±3%RH
Working Temperature	-10~50°C	
Working Humidity	0-80%RH	
SERIAL INTERFACE		
Interfaces	RS485 Modbus RTU for BMS integration	
Ports	USB, Support 10m/100m Ethernet, Support 802.11b/g/n Wi-Fi wireless network, 4G LTE Network	

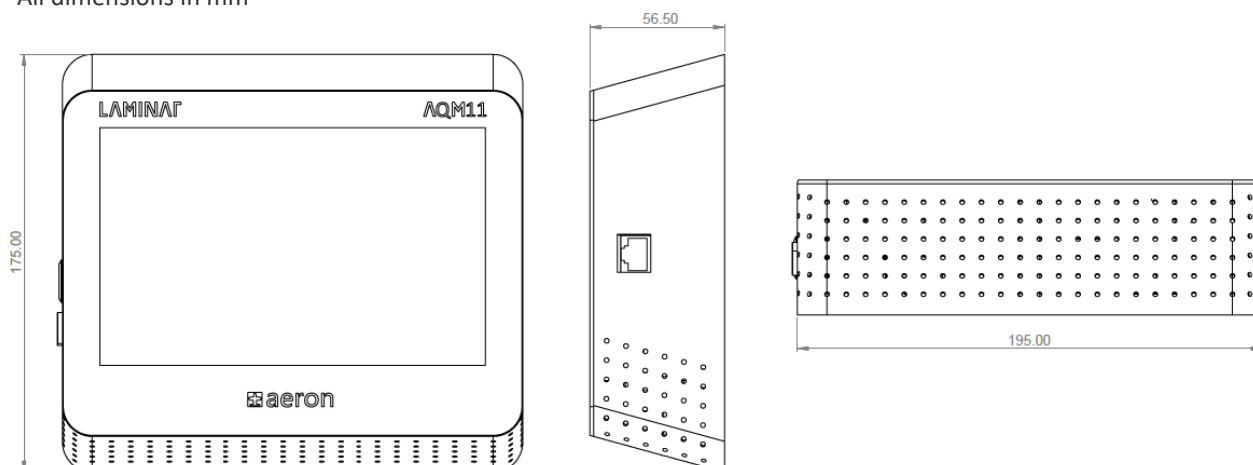
PARAMETER NAME	PARAMETER VALUE
	LMR-AQM11
STORAGE	
SD Card Memory	8 GB (Expandable upto 32 GB)
USB	Data retrieval on a Pen Drive
OTHER SPECIFICATIONS	
LED Indicators	Power
RTC	Onboard with 3 V coin cell
ELECTRICAL	
Voltage Input	Recommend 12V 2A
Power Consumption	<24 W
ENVIRONMENT	
Operating Temperature	-10 °C to +50 °C
Dimensions	195 (L) x 56.50 (W) x 175 (H) mm
Weight	<1 kg
Mounting	Wall Mount

Available Colour Options



Mechanical Dimensions

All dimensions in mm



MADE IN INDIA

Datasheet Ver. 1.0.0, Apr 2023

LMR-AQM11 Dashboard Interfaces

Interactive UI for easy access to data, visualization and settings.

