



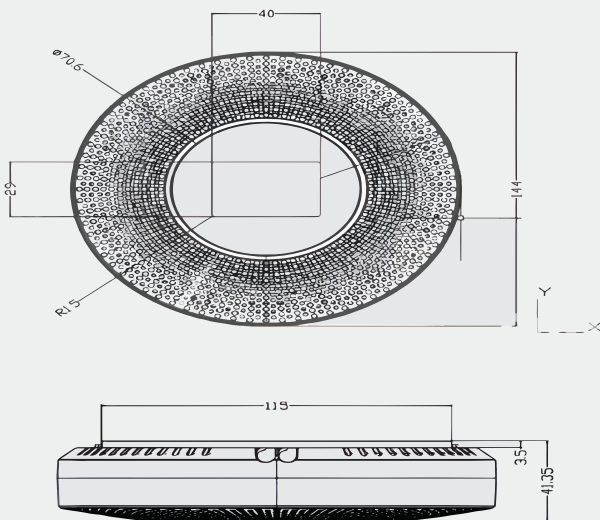
Overview:

NeoWave AQS820 is a compact air quality monitoring device integrating one to 11 sensor types, offering various sensor combinations to suit diverse application needs. With dedicated probes for each parameter, it ensures accurate measurements and includes external temperature and humidity sensors. A real-time display screen provides continuous environmental updates. Its compact design ensures minimal space usage without compromising functionality, performance stability, or cost efficiency. The AQS820 is ideal for environmental quality monitoring and IoT-based gas detection applications.

Feature:

- Powerful Functionality: Integrates up to 11 sensors at once
- Easy Installation: Supports both ceiling and wall mounting
- Flexible Applications: Allows free combination of different sensors
- High Accuracy: Provides precise detection with quick responsiveness
- Supports LoRaWAN, 4G, Bluetooth, and WIFI interfaces, with MQTT, HTTP, UDP, and TCP protocols for seamless IoT integration

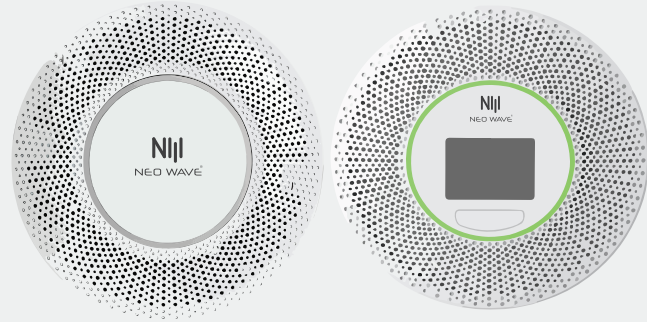
Dimensions:



unit: mm, tolerance ±0.2mm Terminal spacing 3.81mm

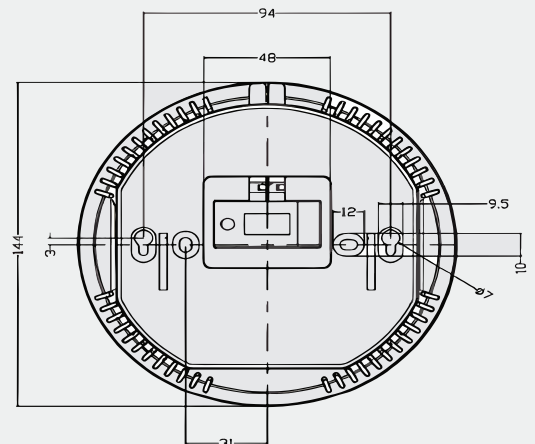
AQS820

Multi-in-one Air Quality Sensor



Application:

- Air Quality Monitoring: Ideal for IoT-based air quality solutions
- Smart Buildings and Communities: Enhances environmental monitoring
- Public Spaces: Suitable for schools, hospitals, supermarkets, and subways
- Agriculture and Animal Husbandry: Supports environmental control for crops and livestock
- Industrial Environments: Applicable in workshops, production parks, and other industrial sites



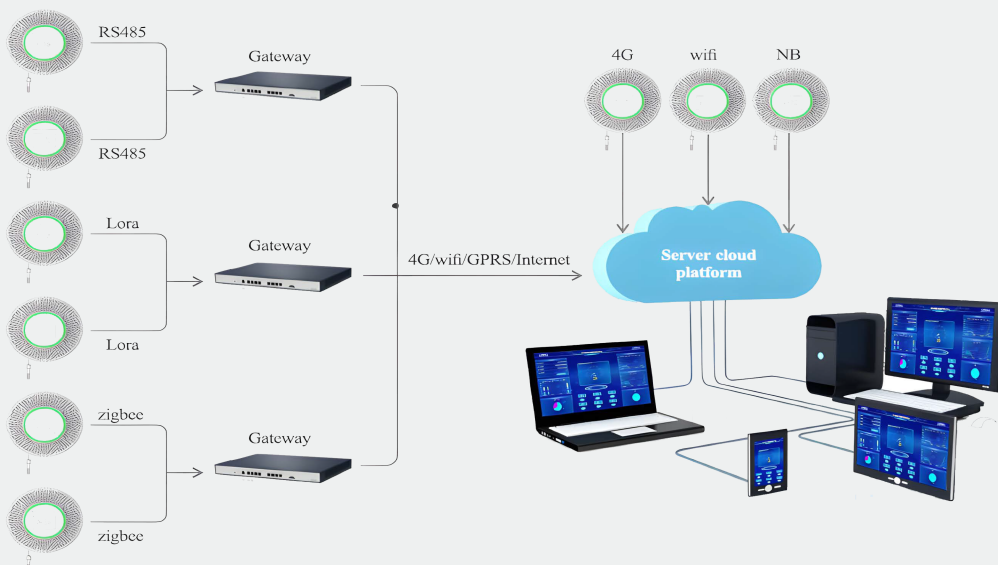


NEO WAVE®

Specifications:

Parameter	Types Specification
Gas Detection	See table next page
Operating Voltage	DC 10V~30V
Operating Current	≤200mA
Warm-up Time	3min
Detection Frequency	Data uploaded every 120s
Output Mode	Modbus, Lora, ZigBee, 4G, WIFI, Bluetooth NB
Dimension 144x41mm	144x41mm
ABS Shell	ABS Shell
Installation Method	Ceiling-mounted, wall-mounted
Operating Temperature	-10 ~50
Operating Humidity	0%RH~95%RH (Non-condensing)
Storage Temperature	-30 ~ 60
Storage Humidity	0~99%RH (Non-condensing)
Default APPEUI	112233445566776
Default APPKEY	11223344556677665544332211aabbcc

Data Transfer Systematical Structure:



Ordering information:

To order the AQS820, please specify the exact measurements and desired output requirements



Detection Type	Detection Range	Resolution	Data Accuracy	Service Life
Noise	30db~130db	0.1db	±1db	3 years(in air)
Temperature	-40 ~100	0.01	±0.3	10 years
Humidity	0~99%RH	0.1%RH	±3%RH	10 years
pm2.5	0~1000µg/m³	1µg/m	±10% reading	≥40000 h
pm10	0~1000µg/m³	1µg/m	±10% reading	≥40000 h
pm1.0	0~1000µg/m³	1µg/m	±10% reading	≥40000 h
CO2	400~5000ppm	1ppm	±50ppm±3%FS	10 years(in air)
Formaldehyde	0~5000µg/m³	1µg/m	±10µg/m³±10%FS	2 years(in air)
TVOC	0~5000µg/m³	1µg/m	±10% reading	10 years(in air)
Fumes	0~1000µg/m³	1µg/m	±10% reading	≥40000 h
Alcohol	0~500ppm	1ppm	±10% reading	2 years(in air)
O3	0~10ppm	0.1ppm	±2%FS	2 years(in air)
CH4	0~100%LEL	1%LEL	±5%FS	3 years(in air)
CO	0~1000ppm	0.1ppm	±3%FS	2 years(in air)
O2	0~25%Vol	0.1%Vol	±3%FS	2 years(in air)
NH3	0~100ppm	1ppm	±5%FS	2 years(in air)
H2S	0~100ppm	1ppm	±5%FS	2 years(in air)
Cl2	0~10ppm	0.1ppm	±3%FS	2 years(in air)
NO2	0~20ppm	0.1ppm	±3%FS	2 years(in air)
SO2	0~20ppm	0.1ppm	±3%FS	2 years(in air)
SF6	0~1500ppm	1ppm	±2%FS	10 years(in air)
Atmospheric pressure intensity	30~110Kpa	0.1Kpa	±0.15Kpa@25 75Kpa	3 years(in air)
Light level	0~200K Lux	1Lux	±7%@25	3 years(in air)