

# **Air quality detector**

## **NBD-AS60**

**(Product Manual)**

**(NO. : V. 1. 11. 02)**

# Product Introduction

NBD-AS60 multi-parameter atmospheric environment online detector is an air environment comprehensive index monitor, used to detect PM2.5, PM10, carbon dioxide (CO<sub>2</sub>), formaldehyde (CH<sub>2</sub>O), temperature, Humidity, TVOC and other parameters are very powerful and basically cover various indicators that reflect air quality. The meter adopts imported sensors and computing chips with high precision, high resolution and good stability. It is widely used in building HVAC, building energy saving, smart home, schools, hospitals, hotels, training institutions, kindergartens, confinement clubs, airport stations and other places.

NBD-AS60 series multi-parameter atmospheric environment online detector is suitable for air environment monitoring equipment embedding and system integration; such as intelligent office building environment monitoring system, smart home environment monitoring system, school hospital environment monitoring system, hotel environment monitoring system, fresh air control Systems, air purification efficiency detectors, vehicle-mounted air environment detectors and other places.



## Equipment parameters

**Power supply:** DC12-24V

**Electric current:** 150mA / Average, 300mA / peak

**Signal output:** RS485, WIFI

**Air inlet mode:** Natural inspiration

**Shell material:** ABS

**Degree of protection:** IP30

**Installation mode:** Wall mounted or ceiling mounted

**Size:** 130mm × 130mm × 35mm

**Operating environment:** -10-50℃; 0-90%RH (No condensation)

**Storage environment:** -20-60℃; 0-90%RH (No condensation)

## Parameter specification

NBD-AS60				
Parameter	Operating Principle	range	Resolution	Accuracy
Temperature	Thermal sensitivity	-40 ~ 80℃	0.1℃	±0.5℃
humidity	Capacitive	0 ~ 100%RH	0.1%RH	±5%RH
PM2.5	Laser optics	0 ~ 1000ug/m <sup>3</sup>	1ug/m <sup>3</sup>	±10%
CO2	NDIR	0 ~ 5000ppm	1ppm	±40ppm±3%reading
TVOC	Semiconductor	0 ~ 5.00mg/m <sup>3</sup>	0.01mg/m <sup>3</sup>	< ±15%F.S
HCHO	Electrochemistry	0 ~ 2.00ppm	0.01ppm	< ±0.05ppm

#### FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

#### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.