Touch LCD air and gas sensor

Model ES-A340

Introduction

ES-A340 air environment multi-factor transmitter, the device has a built-in large-screen LCD, a friendly interface and is easy to operate. It is used to detect temperature, humidity, PM2.5, PM10, TSP, atmospheric pressure, light, noise, odor, TVOC, CO2, formaldehyde, O3, CO, CH4, O2, SO2, NO2, H2, H2S, NH3, smoke and other factors in the air environment, basically covering all indicators reflecting air quality.
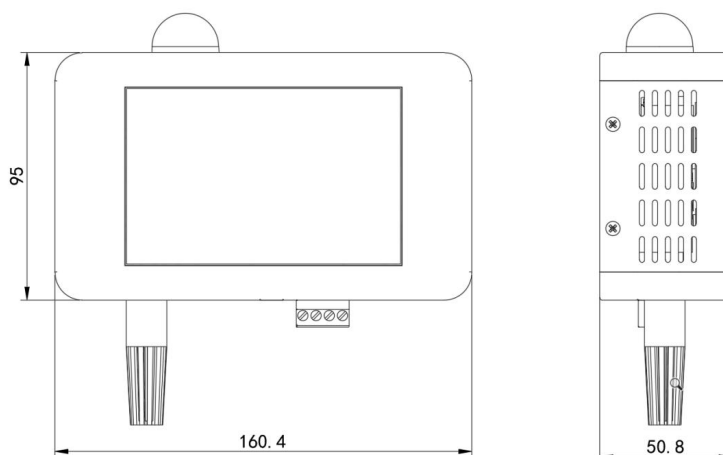
The ES-A340 transmitter uses imported sensors and control chips, with high resolution and good stability. The device uses a wide voltage 10-30V DC power supply, 485 signal output, standard ModBus-RTU communication protocol, ModBus address can be set, baud rate can be changed, and the communication distance is up to 2000 meters.

Application

It is widely used in building HVAC, building energy saving, smart home, school, hospital, airport station and other places.

Dimension

Unit:mm

Main features

- Integrates multiple measurement elements in one, up to 15 measurement elements can be integrated at the same time.
- 4.3-inch LCD display, touch screen control operation
- Metal shell, anti-corrosion coating, durable
- Wall-mounted installation, easy to install
- Support RS485, 4G, WI-FI, Ethernet multiple signal
- Anti-interference modules are added to prevent electromagnetic interference

Compliance

The electromagnetic compatibility in accordance with the following applicable directives:
EMC 2014/30/EU
Electromagnetic Compatibility
EMC 2014/35/EU
Electromagnetic Compatibility

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Specification

Parameters	Range	Resolution	Accuracy
Temperature	-40°C~+120°C, default -40°C~+80°C	0.1°C	±0.5°C(25°C)
Humidity	0~100%RH	0.1%RH	±3%RH(60%RH,25°C)
Atmospheric pressure	0~120Kpa	0.1Kpa	±0.15Kpa@25°C75Kpa
Illuminance	0-200,000 Lux	1Lux	±7%(25°C)
Noise	30-130db	0.1dB	±0.5dB
PM2.5 / PM10	0~1000ug/m3	1ug/m3	±3%
TSP	0~20000ug/m3	1ug/m3	±25%F.S/±40µg/m³
TVOC	0~60000ppb	1ppb	8%FS
CO2	0~5000ppm	1ppm	±(50ppm+ 3%F·S)
Formaldehyde	0~5ppm	0.01ppm	±5%FS
Ozone	0~10ppm	0.01ppm	±6%FS
O2	0~30%Vol	0.1%Vol	±2%FS
H2S	0~100ppm	1ppm	±2ppb
CH4	0~100%LEL	1%LEL	±5%FS
CO	0~1000ppm	1ppm	±5ppm
NO2	0~20ppm	0.1ppm	±5%FS
SO2	0~20ppm	0.1ppm	±5%FS
H2	0~1000ppm	1ppm	±5%FS
NH3	0~100ppm	1ppm	±8%FS
Smoke	0~10000ppm	1ppm	±5%FS
Power supply	DC 10-30V（default)		
Power consumption	5W (24V DC power supply)		
Work environment	Temperature - 10 °C - 55 °C; humidity 0 ~ 95% RH, non condensing		
Signal output	RS485 output (standard Modbus RTU protocol), analoge output, RJ45, Lora, WIFI, 4G		

Order guide

ES-A340	Air and gas sensor		
	CODE	Functions	
	XXX..	Temperature, humidity, PM2.5, PM10, TSP, atmospheric pressure, light, noise, odor, TVOC, CO2, formaldehyde, O3, CO, CH4, O2, SO2, NO2, H2, H2S, NH3, smoke *(List the functions when order)*	
		CODE	Signal output
		XX	RS485, analoge output, RJ45, Lora, WIFI, 4G
ES-A340	THPM	RS485	Order example

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