

OverView

NeoWave TxDI36 PM2.5/PM10 Indoor Dust Sensor A laser-based sensor that detects particle sizes from 0.3 to 10µm (PM2.5/PM10) with high accuracy, fast response, and long-term reliability. Features overvoltage & reverse polarity protection, multiple output options (current, voltage, RS485), and an optional relay output for alarms/control. The six-color LED screen visually indicates air quality levels, while the compact design allows for easy wall-mount installation

TxDI36

Room Dust PM2.5&PM10 Sensor/Controller



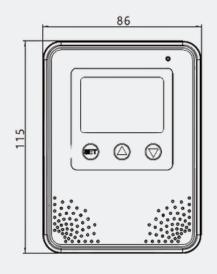
Features

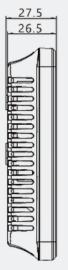
- Laser dust sensor (0.3–10µm detection)
- Multiple outputs (analog, RS485, optional relay)
- Six-color LED for real-time air quality feedback
- Overvoltage & reverse polarity protection
- Relay output for alarms/automated control
- Compact & wall-mountable design

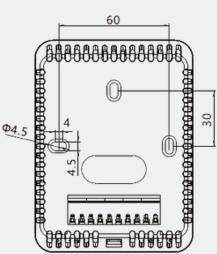
Applications

- Smart offices & commercial buildings
- Hospitals & healthcare facilities
- Schools & educational institutions
- Air quality monitoring in public spaces

DIMENSIONS AND WIRING

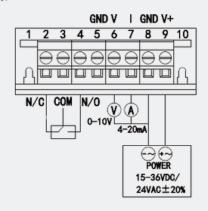


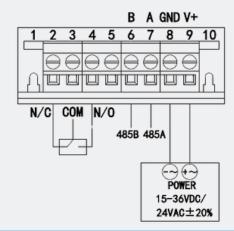






Depending on the selection, the following figures show the current and voltage output, RS485 output and relay wiring methods:





Specifications

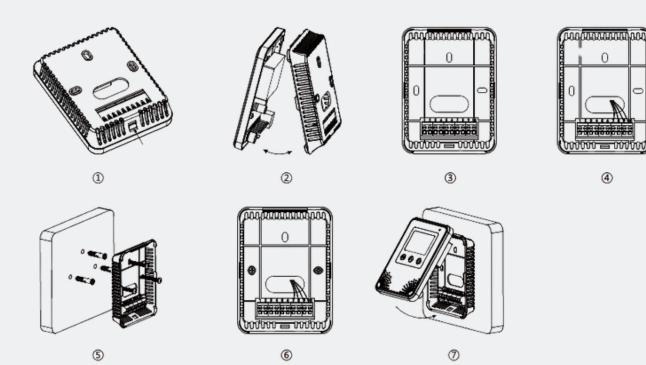
Room Dust PM2.5&PM10 Sensor/Controller

Sensor	Laser dust sensor, detecting particle size 0.3~10μm				
Sensor life	Mean time between failures ≥ 3 years				
Range	PM2.5:0~500 μ g/m3, particle size 0.3~2.5 μ m PM10:0~600 μ g/m3, particle size 0.3~10 μ m				
Accuracy	PM2.5:±10μg/m3@0~100μg/m3, ±10%FS@100~500μg/m3, @25°C				
Resolution	1μg/m3				
Preheating time	≤2min				
Response Time (T ₉₀)	Continuous measurement mode single response time <1S, comprehensive response time <10S				
Power supply	15~36VDC/24VAC±20%				
Relay	1xSPDT 3A/30VDC 3A/250VAC				
Work environment	0~50°C&0~95%RH (no condensation)				
Storage environment	-20~60°C &0~95%RH (no condensation)				
Display and keys	The equipment can set parameters such as relay working mode				
Levels of protection	IP30				
Material	PC				
LED indicator light	Green:Good Yellow: Moderate Orange: Sensitive				
	Red:Poor Purple: Unhealthy Crimson: Hazardous				



Installation

- 1. Open the Sensor Cover
- Press the cover release button located at the back to open the sensor (see Figure 1 & 2).
- 2. Connect Wiring
- Connect wires as per the wiring diagram (see Figure 3).
 Route the cable through the designated cable entry hole (see Figure 4).
- 3. Mounting Options
- Wall Mounting: Secure the back cover using expansion screws (3 mounting holes provided see Figure 5).
- **Switchbox Mounting**: Attach directly to a standard wall-embedded switch box using screws (see Figure 6).
- 4. Final Assembly
- Align and snap the front cover onto the base to complete installation (see Figure 7).





Selection Code:

	Remark				
TxDI36		Room Du	Model		
	AV2		4~20mA&0~~10V@PM2.5		
	AV10		4~20mA&0~10V@PM10	Туре	
	RS		RS485Modbus		
	1		Without display button	Display Button	
	2		With display button	Display Button	
		1	No	Relay & buzzer	
		2	1xSPDT	(optional when equipped with display	
		3	1xSPDT+1xbuzzer	button	