

**Description & Features:**

- WPM2 Series is a laser dust sensor that utilizes a laser light source to accurately measure the number of particles (PM2.5 or PM10)
- The unit outputs the particle mass concentration ($\mu\text{g}/\text{m}^3$) through mathematical algorithms and transmits the information
- Large LCD display, analog or RS485 output or relay outputs are available
- Measurement accuracy and consistency up to $\pm 10\%$ reading or $\pm 10\mu\text{g}/\text{m}^3$
- Complete protection against overvoltage, reverse polarity and EMC interference
- Customization available for dedicated installations and private labelling
- 5 year warranty

Applications:

- It is suitable for air purification and fresh air systems other places
- Widely used in intelligent HVAC systems in modern buildings, cabinets, machinery & equipment, trains & train stations, subways, airports, schools and other places
- The product is widely used in HVAC control systems of various types in commercial and government buildings as well as manufacturing and processing facilities

Technical Parameters

Sensing Elements	PM2.5 laser sensor, detects particle diameter 0.3-10 (PM2.5) PM10 also available, Laser based scattering principle
Concentration Range	0 - 500 $\mu\text{g}/\text{m}^3$
Accuracy	$\pm 10\%$ reading @ 25°C (77°F) & 50% RH
Power Consumption	$\leq 1.2\text{W}$
Warm-up Time	$\leq 8\text{ s}$
Response Time	$\leq 1\text{ s}$
Operating Temperature	-10/50°C (14 - 122°F)
Operating Humidity	5 - 95 % RH, non-condensing
Power Supply	24V AC/DC
Output Signal	4/20mA, 0/10V, RS485 (Modbus RTU)
Display Type	LCD optional
IP Rating	Indoor type: fireproof ABS, IP30 - Refer to IEC529-598/GB 700-86/ GB 4208 Duct type: ABS+PC, IP65 - Refer to IEC529-598/GB 700-86/ GB 4208
Electromagnetic Compatibility	EMC reference GB/T 13926, EN61000-6-2, EN61000-6-3

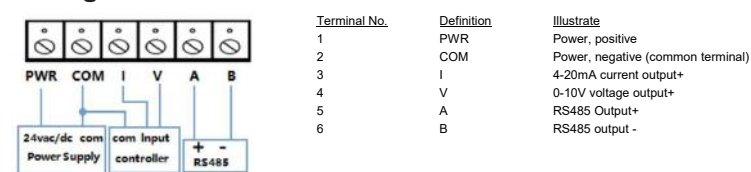
Indoor and Ventilation Air Quality Sensors With Transmitter Output

WPM2

Air Quality Levels

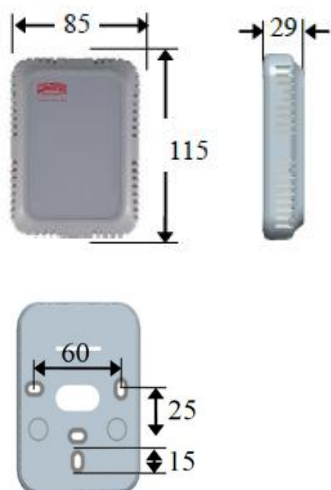
Power supply	24-hour PM2.5 average standard value
Excellent	0 - 35
Good	35 - 75
Slight Pollution	75 - 115
Moderate Pollution	115 - 150
Severe Pollution	150 - 250
Very Severe Pollution	> 250

Wiring Instructions



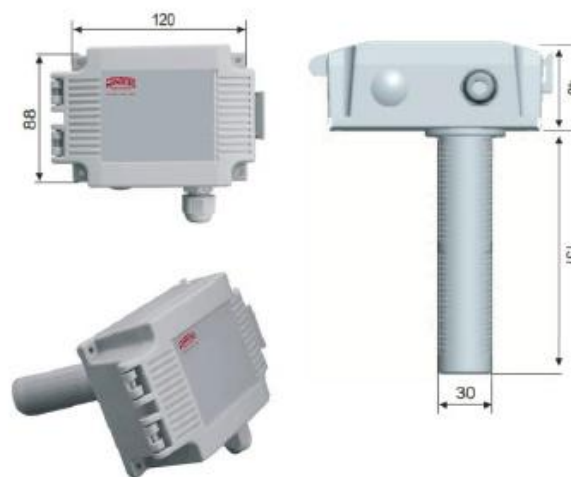
Dimensions (mm)

Wall mount



85mm = 3.35"
 115mm = 4.53"
 29mm = 1.14"
 60mm = 2.36"
 25mm = 0.98"
 15mm = 0.59"
 88mm = 3.46"
 120mm = 4.72"
 48mm = 1.89"
 137mm = 5.39"
 30mm = 1.18"

Duct mount



Notes: To ensure the long life of the product, the filter should be cleaned regularly to prevent dust accumulation. PM2.5 refers to particles in the atmosphere with an aerodynamic equivalent diameter of less than or equal to 2.5 microns, also known as respirable particles

Selection Table

WPM2 - Indoor & Ventillation Air Quality Sensors with Transmitter Output

Description	Technical parameters						
Power supply	24 Vac/Vdc	4					
Output signal	4/20 mA		1				
	0/10 V		3				
	RS485		R				
Particulate Size	PM2.5			25			
	PM10			10			
Mounting Type	Wall Mounting Type				W1		
	Ventillation Mounting, 140mm (5.5") stem insertion				V1		
LCD	Without LCD display					-	
	LCD display included					L	
Customization	Special types, labelling etc						Z###