



## WT602 Laser Dust Meter Real-time PM Monitoring For CEMS Boiler And Industrial Emission Systems

### Our Product Introduction

#### Basic Information

- Minimum Order Quantity: MOQ 1pc
- Price: USD 1200
- Stock: In stock 100pcs
- Shipping Method: Express
- Description: WT602 dust meter is an online dust analysis product independently developed and produced by the company.
- Payment Terms: T/T



#### Product Specification

- Product Name: WT602 Dust Meter / Particulate Matter Monitor
- Measurement Principle: Laser Forward Scattering
- Measured Parameters: PM Concentration (mg/m³)
- Detection Range: 0–500mg/m³ (customizable)
- 0–500mg/m³ (customizable): CEMS, Coal-fired Boilers, Incinerators, Cement Kilns
- Installation Type: In-situ, Stack-mounted
- Highlight: **Boiler Dust Meter, Industrial Emission Systems Dust Meter, Real-time PM Monitoring Dust Meter**



#### More Images



## Our Product Introduction

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### Product Description

#### WT602 Laser Dust Meter



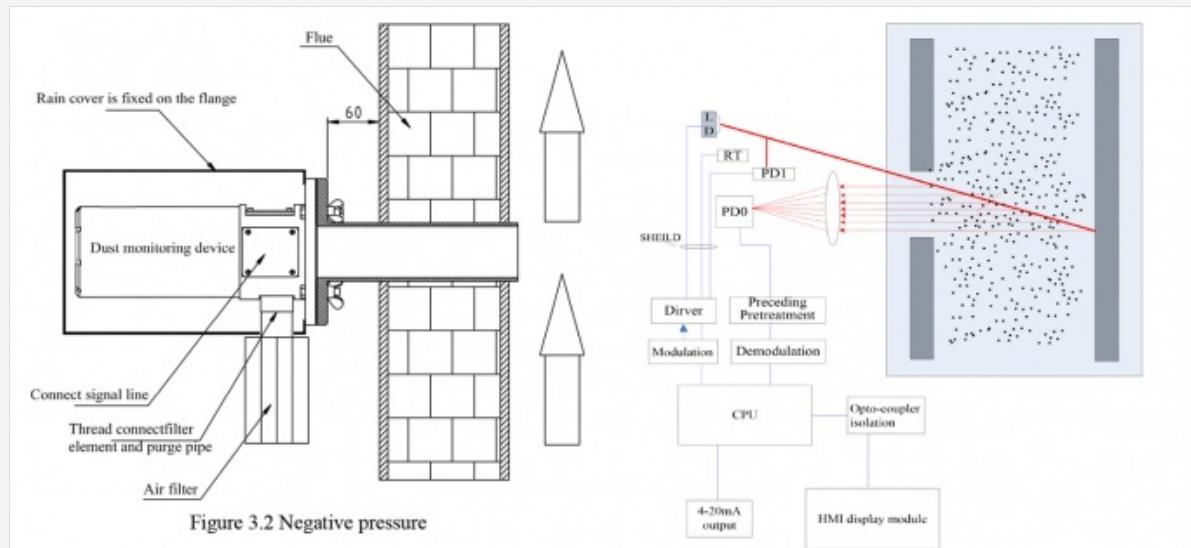
### Product Description

WT602 dust meter is an online dust analysis product independently developed and produced by the company. It adopts the mainstream laser backscatter measurement technology, and its key components are all imported. The product is used for continuous monitoring of particulate matter emission concentrations of various pollution sources. It can be used with a continuous flue gas monitoring system (CEMS), or it can be connected to a soot monitoring network individually or multiple units, sharing a set of data collection and processing background.

This product is widely used in thermal power generation, iron and steel metallurgy, petrochemical industry, cement production, ceramics, waste incineration, etc., various power generation boilers, industrial kilns, industrial boilers, smoke emission monitoring and flue gas desulfurization and dust removal project monitoring and control

### TECHNICAL CHARACTERISTICS:

- 1) Laser backward scattering principle can prevent the laser beam from swinging. Then the refractive index is uneven during the mechanical vibration at uneven temperature.
- 2) Single-Side installation without optical path alignment.
- 3) The on-site display can read the dust concentration in the field.
- 4) After the laser beam is modulated, the system can significantly improve its anti-interference ability.
- 5) The device design has been implementing the thinking of "no tool" on-site installation, to minimize the complexity of field installation.
- 6) (4-20)mA standard industrial current output makes the connection easy.
- 7) Device overall power consumption is very low at around 3w.
- 8) Generally, the standard setup parameters are applicable to the flue wall with a thickness less than 400mm and a diameter greater than the device stack label size. The measuring area can be customized as required specifically. Users may also adjust the area under the approval and guidance of the maintenance personnel.



### TECHNICAL SPECIFICATIONS:

Note: has adopted a 128x64 graphic LCD for display. The LCD contrast display adjustment can be made through adjusting a potentiometer on the front panel.

| Parameters            | WT602             | WT602B       |
|-----------------------|-------------------|--------------|
| Principle             | Laser backscatter |              |
| Working wavelength    | 650nm             |              |
| Zero drift            | ±2%F.S./24h       | ±2%F.S./24h  |
| Range drift           | ±2%F.S./24h       | ±2%F.S./24h  |
| Indication error      | ±15%              | ±15%         |
| Response time         | ≤ 10s             | ≤ 10s        |
| Diameter of flue      | (1-15)m           | (0.7-20)m    |
| Operating temperature | (-40 +65) °C      | (-20 +50) °C |
| Flue temperature      | 200°C             | 500°C        |
| Flue pressure         | 1Kpa              | -            |
| Signal output         | (4-20) mA         | (4-20) mA    |
| Power supply          | DC 24V ± 10%      | DC 24V ± 10% |



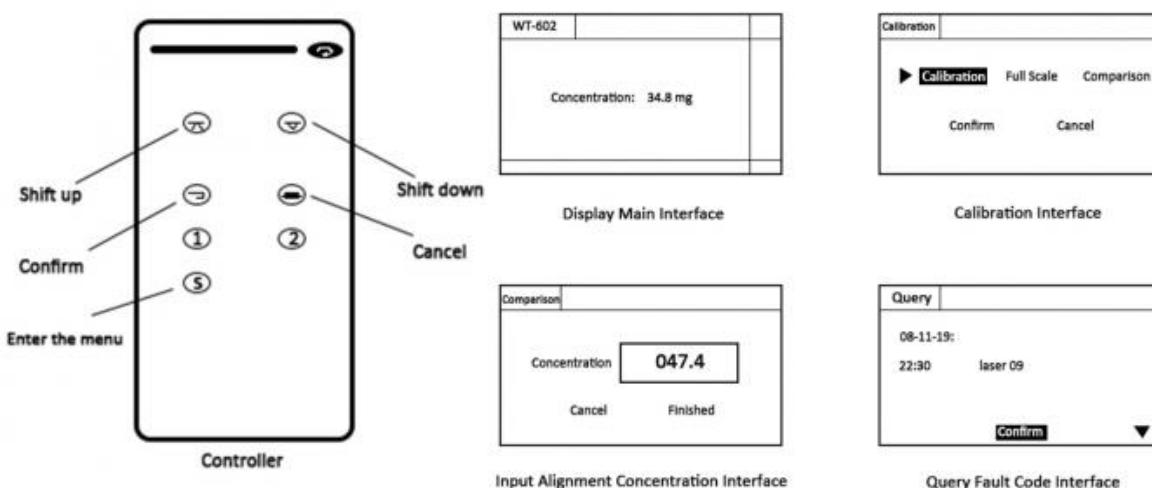
### >>>Product Advantages

- Patented zero in position and range calibration function is available

Existing backscatter dust meter products must be removed from the flange when zero point or range calibration is carried out on site. WT-602 adopts the patented technology -- on-spot zero point and range calibration technology, which enables quick zero adjustment and calibration on site without disassembly, greatly facilitating customers.

- Big screen screen and infrared remote control function

The WT-602 has a large lattice display and provides remote control. The large screen dot matrix display can display the dust concentration in the field in real time, as well as the historical data, alarm information and configuration information of dust concentration. With the smart remote control provided randomly, users can also maintain and operate it without opening the cover, which is a significant improvement on the existing maintenance mode. Below is the LCD display of several interface diagram.



- Perfect laser protection function

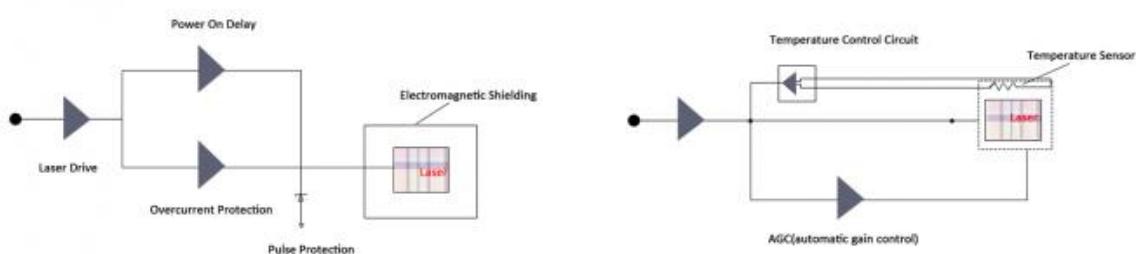
WT-602 USES imported semiconductor laser with a wavelength of 650nm. The laser belongs to the sensor part, which may be damaged under the following circumstances:

1. Lightning;
2. Power supply voltage pulse impact (power on impact);
3. Electrostatic shock;

In order to protect the laser from damage, WT-602 specially added a set of laser protection circuit, to ensure that the laser can long time, stable, reliable work.

- Temperature compensation and automatic gain control function

All semiconductor lasers are greatly affected by temperature, and the dust meter without temperature compensation and automatic gain control has a large temperature drift. The WT-602 product features temperature compensation and automatic gain control, providing excellent temperature characteristics.





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