

WT602 Laser Dust Meter Real-Time PM Monitoring For CEMS Industrial Boilers And Emission Control Systems

Our Product Introduction

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Basic Information

- Minimum Order Quantity: MOQ 1pc
- Price: USD 1200
- Stock: In stock 100pcs
- Shipping Method: Express
- Description: The WT602 Dust Meter is a company-developed, fully independent online dust monitoring and analysis system.
- 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: **Emission Control Systems Dust Meter, Real Time Dust Meter, Industrial Boilers Dust Meter**



More Images



Product Description

WT602 Laser Dust Meter



Product Description

The **WT602 Dust Meter** is an independently developed and manufactured online dust monitoring system. It employs **laser backscatter measurement technology** with all key components imported, providing highly accurate and reliable continuous monitoring of particulate matter emissions from various pollution sources. The device can be integrated with a **Continuous**

Emission Monitoring System (CEMS) or operate independently in single or multiple-unit networks, sharing a common data acquisition and processing platform.

The WT602 is widely applied across **thermal power, steel and metallurgy, petrochemical, cement, ceramics, and waste incineration industries**. It is suitable for monitoring emissions from boilers, industrial kilns, and flue gas desulfurization and dust removal systems, ensuring precise control of particulate matter emissions.

Technical Characteristics

Utilizes **laser backscatter technology** to maintain stability, minimizing errors caused by mechanical vibrations or uneven temperature-induced refractive index changes.

Supports **single-side installation** without the need for optical path alignment.

On-site display allows direct reading of dust concentration at the monitoring location.

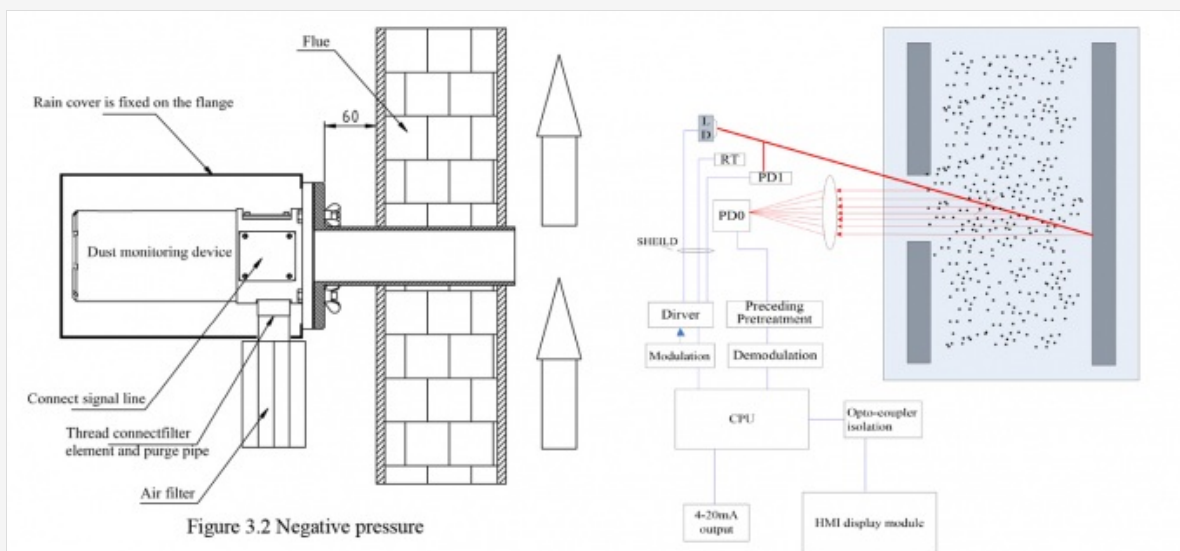
Laser beam modulation enhances the system's resistance to interference.

Designed for **tool-free installation**, simplifying field setup and reducing installation complexity.

Provides **standard 4–20 mA industrial current output** for easy system integration.

Extremely **low power consumption**, approximately 3 W for the entire device.

Standard configuration is suitable for **flue walls less than 400 mm thick** and stacks larger than the device label size, with customizable measurement areas adjustable under professional guidance.



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

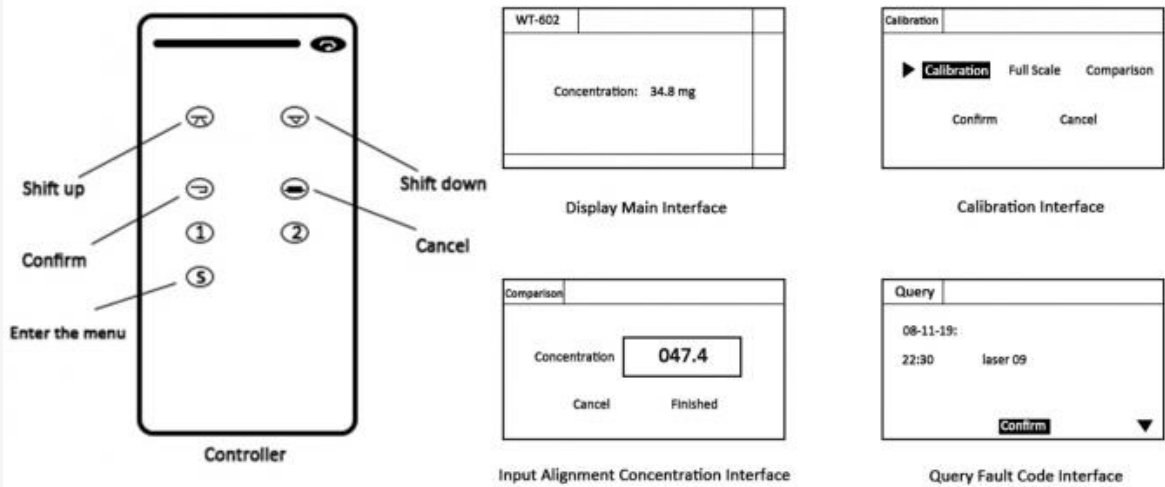


- **Patented zero in position and range calibration function is available**

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**

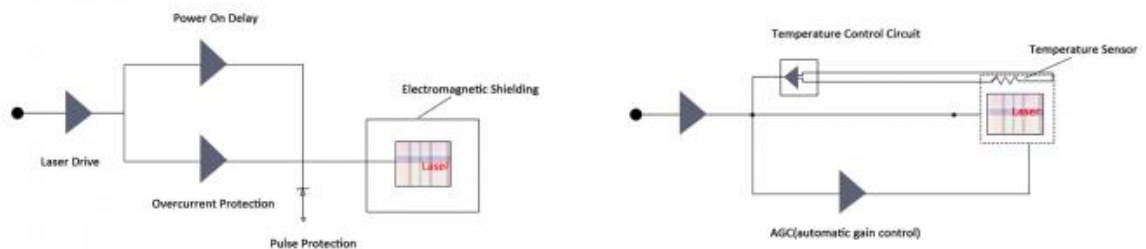
WT-602 USES imported semiconductor laser with a wavelength of 650nm. The laser belongs to the sensor part, which may be damaged under the following circumstances:

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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