

WT602 Laser Backscatter Dust Monitor for Real-Time Particulate Measurement

Our Product Introduction

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Basic Information

- Minimum Order Quantity: 1PC
- Price: USD+800-1000 PC
- Stock: 1PC
- Shipping Method: LCL, AIR, FCL, Express
- Payment Terms: T/T, Western Union, Paypal



Product Specification

- Model: WT-602
- Power Supply: DC 24V
- Output: 4-20mA
- Material: Aluminium Alloy ,Its Surface Oxidizes And Blackens
- Environmental Temperature: -40~70 Degree
- Power: Not Exceeding 3W
- Max. Smoke Temperature: 600 Degree, Higher Temperature Customized
- Display: LCD Screen
- Digital Interface: RS485/ 2-Way Relay
- Highlight: **Laser Backscatter Dust Monitor,
4-20mA Output Dust Meter,
Single-End Installation Particulate Monitor**



More Images



Product Description

WT602 Laser Backscatter Dust Monitor

High sensitivity environmental monitoring smoke analyzer for real-time particulate measurement and dust concentration monitoring.

Product Overview

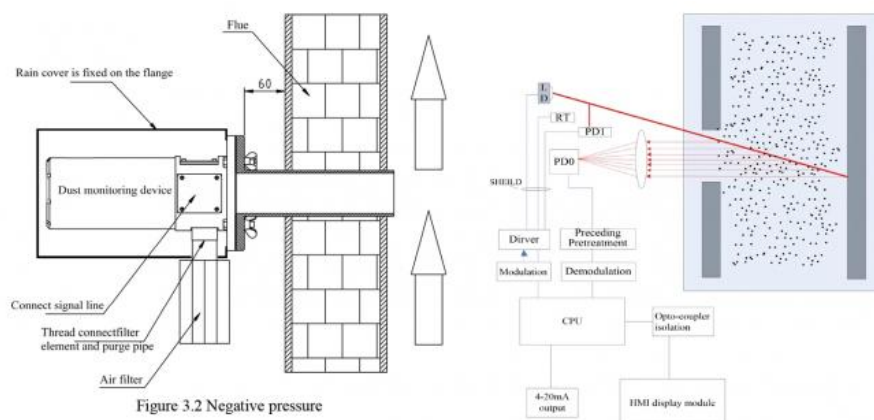
The WT602 dust meter is an advanced online dust analysis instrument developed using mainstream laser backscatter measurement technology with imported key components. Designed for continuous monitoring of particulate matter emission concentrations from various pollution sources, it can integrate with continuous flue gas monitoring systems (CEMS) or operate independently within soot monitoring networks while sharing data collection and processing infrastructure.

This industrial-grade monitor is widely deployed across multiple sectors including thermal power generation, iron and steel metallurgy, petrochemical processing, cement production, ceramics manufacturing, waste incineration facilities, and various industrial boilers and kilns for emission monitoring and flue gas desulfurization/dust removal process control.



Key Features

- Laser backward scattering principle prevents laser beam deflection during mechanical vibration and temperature fluctuations
- Single-side installation eliminates complex optical path alignment requirements
- On-site display provides real-time dust concentration readings in the field
- Modulated laser beam significantly enhances anti-interference capabilities
- "No tool" installation design minimizes field installation complexity
- Standard 4-20mA industrial current output for easy system integration
- Low power consumption at approximately 3W for energy efficiency
- Standard configuration suitable for flue walls up to 400mm thickness with customizable measuring areas



WT602 Online Laser Dust Monitor Capabilities

Real-Time Laser Dust Measurement: 650nm laser backscattering technology provides continuous particulate matter concentration monitoring in flue gas, chimneys, and exhaust pipelines with high stability and rapid response

Industrial Signal Output & System Integration: Standard 4-20mA analog output with optional RS485 Modbus RTU for seamless connection to PLC, DCS, SCADA, and CEMS systems

Single-End Installation, No Alignment Required: One-side mounting design supports stack wall thickness up to 400mm without optical path adjustment

Strong Anti-Interference & Low Maintenance: DSP digital signal processing and laser modulation reduce vibration, temperature, and gas fluctuation impacts with purge air protecting optical lenses

Wide Industrial Applications: Suitable for power plants, cement plants, steel works, chemical and petrochemical industries for emission monitoring and dust removal process control



Technical Specifications

Features a 128x64 graphic LCD display with contrast adjustment via front panel potentiometer.

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%
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Nanjing Kelisaik Safety Equipment Co., Ltd.



+86 25 8719 3262



manager@njklsk.cn



multi-gasdetection.com

Bldg 12, 2 Qingshuiting West Road, Nanjing, Jiangsu, China, 211102