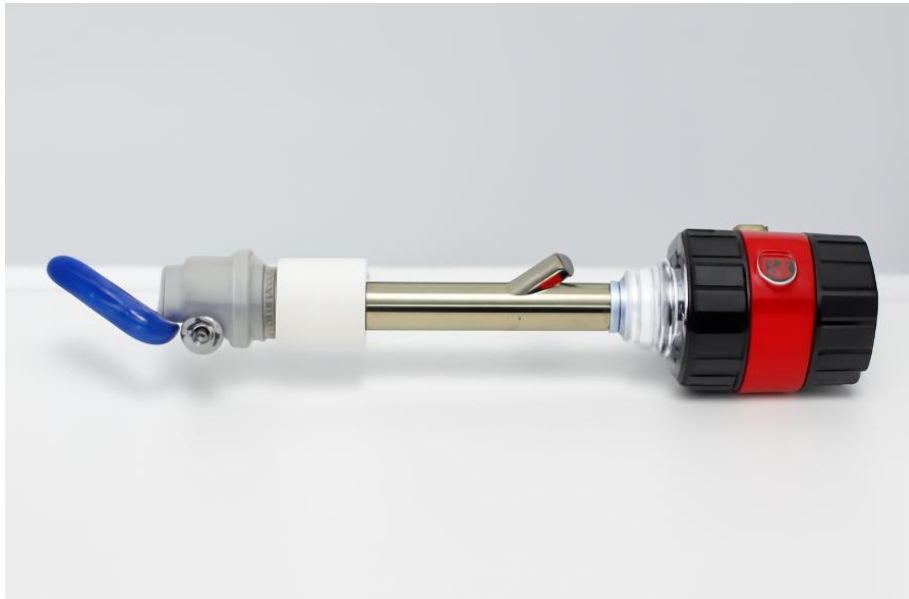


## Explosion-proof Integrated Flame Detector



## Product Overview

The AT-FD3 is a high-performance explosion-proof flame detector designed for hazardous environments. Utilizing advanced ultraviolet detection technology, it provides reliable flame monitoring for industrial combustion equipment with fast response and excellent stability.

## Technical Specifications

Parameter	Specification
Detection Target	Fuel oil, gas combustion flames
Detection Principle	Ultraviolet (UV) detection
Spectral Response Range	185-260nm
Response Time	≤1 second
Alarm Delay Time	1-120 seconds adjustable
Detection Distance	≤8 meters

Parameter	Specification
<b>Output Signals</b>	Switch output (dry contact, configurable pulse), alarm light output, 4-20mA analog, RS485/Modbus communication
<b>Operating Voltage</b>	24V DC $\pm$ 10%
<b>Power Consumption</b>	$\leq$ 5W
<b>Explosion-proof Rating</b>	Ex db IIC T6 Gb / Ex tb IIIC T80°C Db
<b>Protection Level</b>	IP66
<b>Operating Temperature</b>	-20°C to +70°C
<b>Relative Humidity</b>	$\leq$ 95% RH (non-condensing)
<b>Atmospheric Pressure</b>	86kPa to 106kPa
<b>Parameter Setting</b>	Infrared remote control
<b>Housing Material</b>	ADC12 aluminum alloy
<b>Dimensions (L×W×H)</b>	155mm × 116mm × 111mm
<b>Weight</b>	$\leq$ 1.5kg
<b>Electrical Interface</b>	M20×1.5
<b>Air Purge Interface</b>	G1/4 external thread
<b>Vibration Resistance</b>	No significant shock or vibration
<b>Environmental Requirements</b>	Free from corrosive substances

## Key Features

**High Reliability:** Explosion-proof design suitable for hazardous areas

**Fast Response:**  $\leq$ 1 second detection time for quick safety response

**Multiple Outputs:** 4-20mA, relay contacts, RS485/Modbus communication

**Remote Configuration:** Infrared remote control for parameter setting

**Robust Construction:** IP66 protection, corrosion-resistant housing

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**Flexible Installation:** Adjustable mounting with clear viewing angle

**Easy Maintenance:** Simple cleaning and calibration procedures

## Applications

Industrial boilers and furnaces

Chemical process heaters

Gas turbine combustion monitoring

Incinerators and thermal oxidizers

Petrochemical facilities

Power generation plants