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LGT-450 Flue Gas Analyzer

Product Overview

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LGT-450 Flue Gas Analyzer is a highly integrated single-flange gas monitoring equipment, of which, core detection module adopts Tunable Diode Laser Absorption Spectroscopy (TDLAS) and Differential Optical Absorption Spectroscopy (DOAS) gas absorption technology with independent intellectual property rights. The specially designed measuring cell effectively improves optical



| Features

- Filter element can be easily disassembled and replaced.
- Adopt single-flange design with high integration and easy installation.
- With high-temperature flowmeter, user can observe flow during equipment operation.
- Sampling measurement is free from interference of pipeline deformation, high dust and other working condition change, with strong adaptability.
- The whole gas path is equipped with high-temperature heat tracing and regular auto purge to prevent dust and crystal like salt from blocking the equipment, less maintenance.

| Application

Applied in online gas monitoring occasions including denitrification device, boiler flue and exhaust detection, etc.

| Specifications

TDLAS Technical Index.

Principle: TDLAS

Range: CO: 0-1000ppm, CO₂: 0~25%

Span drift: $\leq 2\%/7d$

DOAS Technical Index

Principle: DOAS

Range: SO₂: 0~1000ppm, NO: 0~1000ppm, NO₂:
0~1000ppm

Indication error: $\leq 2\%F.S.$

Repeatability: $\leq 2\%F.S.$

Zero drift: $\leq 2\%F.S./7d$

Span drift: $\leq 2\%F.S./7d$

Power: (220 \pm 15%)VAC, 50Hz, 600W

Gas source: 0.4~0.8MPa, oil-free, water-free and dust-free

Response time: T₉₀ \leq 10s (double modules)

Analog output: 5x4-20mA output (depend on gas combination)

Switch input: 4xRelay output

Digital input: 1xRS485 output

Ambient temperature: -20°C~60°C

Ambient humidity: $\leq 90\%RH$, non condensing

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