

DOAS-2000 Online Differential UV Gas Analyzer

DOAS-2000

An automated online gas analyzer using differential ultraviolet absorption spectroscopy with integrated sample conditioning.

Revision TS-20261008-eb1fa8db | Prepared 2026-10-08 from approved product data

Shenzhen Eranntex Electronics Co., Ltd.

Automated differential UV gas analysis

DOAS-2000 is an online gas analyzer for flue gas, desulfurization and denitrification processes, boiler exhaust, VOC emissions and wastewater-pipeline monitoring. It uses differential ultraviolet absorption spectroscopy to measure selected gases continuously.

The system collects the sample, cools and dehumidifies it, filters dust, displays concentration data and transmits results to a PLC or computer. It is intended for applications with limited dust loading; higher-dust or more demanding sample conditions require the appropriate cleaning or conditioning configuration.

Technical data

Ingress protection	IP66
Dimensions	800 × 500 × 340 mm (H × W × D)
Operating temperature	-40 °C to 70 °C
Data storage	16 GB
Sampling method	Pump
Measurement scope	SO2 and NO2 by differential UV absorption spectroscopy; CO by electrochemical sensing
Measurement range	0-2000 mg/m3 for SO2, NO2 and CO; other ranges customizable
Sampling temperature	-40 to 600 °C standard; 800 or 1300 °C configurations optional
Sampling humidity	0-99% RH
Sampling distance	30-40 m standard; over 70 m with optional vacuum pump
Sampling flow	4 L/min standard; 10 L/min optional
Signal output	4-20 mA, RS485 and multiple passive contacts; wireless or network transmission optional
Display	Windowless cabinet standard; 9-inch touchscreen optional
Printer	Bluetooth printer optional
Power supply	220 V AC, 50 Hz

Communication and positioning options

Interface	Availability	Notes
RS485	Standard	

Supported Gas Configurations

Each row describes one supported gas and measuring range. It does not identify an installed detection channel or an orderable part number. Gas combinations, sensor compatibility and the final configuration require technical confirmation.

Gas	Measuring range	Resolution / notes
Carbon Monoxide (CO)	0-2,000 mg/m3	1 mg/m3
Sulfur Dioxide (SO2)	0-2,000 mg/m3	1 mg/m3
Nitrogen Dioxide (NO2)	0-2,000 mg/m3	1 mg/m3

Document scope

This summary records the approved model data shown on the product page. It is not an operating manual, installation approval or certificate. Review the applicable certificate record and exact model or configuration scope separately. Request the operating instructions for the supplied configuration before installation or use.

Product information and inquiry: <https://www.erantex.com/products/doas-2000/>