

DOAS-3000 Online Differential UV Gas Analyzer

DOAS-3000

An online differential UV analyzer with heated sampling and enhanced conditioning for demanding process gases.

Revision TS-20261008-a5ca6665 | Prepared 2026-10-08 from approved product data

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Differential UV analysis for high-temperature and high-moisture samples

DOAS-3000 is an online differential ultraviolet gas analyzer designed for high-temperature, high-humidity or high-dust process samples. Typical applications include flue gas emissions, desulfurization and denitrification, boiler exhaust, VOC emissions and wastewater-pipeline monitoring.

Heated sample transport, dust filtration and two-stage condensation dehumidification condition the sample before analysis and help limit losses of water-soluble components. The automated system displays results locally and can transmit data to control systems or remote monitoring platforms.

Technical data

Dimensions	800 × 450 × 1800 mm
Operating temperature	-40 °C to 70 °C
Display size	9 in
Data storage	16 GB
Sampling method	Pump
Documented measurement scope	NO, NO2, SO2, NH3, H2S, O3, benzene, toluene and xylene; the document does not assign every listed range to every gas
Documented range options	0-2, 10, 20, 50, 100, 500, 1000 or 2000 ppm or mg/m3; gas-to-range selection requires project confirmation
Measurement principle	Differential ultraviolet absorption spectroscopy
Sampling temperature	-40 to 600 °C standard; 800-1300 °C configurations optional
Sampling humidity	0-99% RH
Sampling distance	30-40 m standard; over 70 m with optional vacuum pump
Sampling flow	2 L/min standard; 4 L/min optional
Signal output	4-20 mA, RS485 and multiple passive contacts; wireless or network transmission optional
Enclosure	Outdoor waterproof cabinet; explosion-protected configuration optional
Power supply	220 V AC, 50 Hz

Communication and positioning options

Interface	Availability	Notes
RS485	Standard	

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.eranntex.com/products/doas-3000/>