

We about the environment

INNOVATIVE GAS-ANALYIS-TECHNOLOGY





SWG 300⁻¹

EMISSIONS MONITORING PROCESS GAS OPTIMIZATION

> PRECISE · POWERFUL **EFFICIENT**







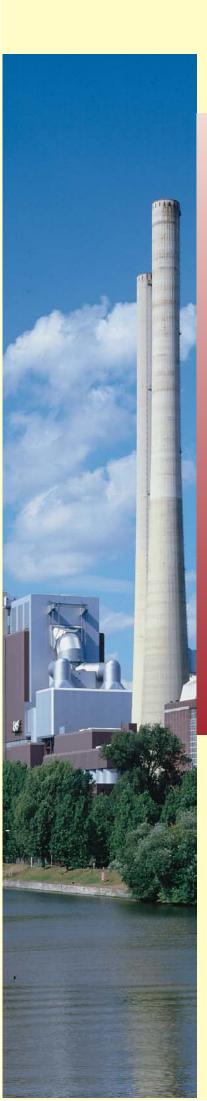












SWG 300-1

Complete analysis system in compact design

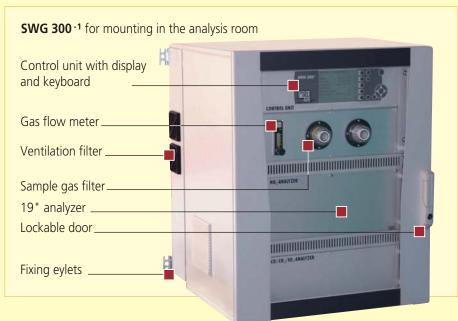
Emission monitoring Process gas optimisation

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The multi-component gas analyzer **SWG 300-1** is based on extractive, cold-dry method and uses NDIR modules, which measure continuously, selectively and highly exact within the ppm range.

NO2 is catalytically converted into NO determining true NOx.

The oxygen analysis is based on zirconium cell, paramagnetic cell or "long-life" electrochemical cell.



Standard hardware

Standardised 19" racks are mounted in a steel metal enclosure with fixing eylets for wall mounting. The enclosure is equipped with lockable, transparent door, a main control unit with backlit grafical LCD and keyboard.

The complete flue gas conditioning by means of electrical gas cooler with automatic condensate draining pump, with sample gas filtration with sample flow monitoring

and alarm, with auto-zero calibration are processor-controlled and continuously monitored, as well as RS 485 for data communication and 8 channel analog outputs 4... 20 mA.

SWG 300⁻¹ analyzer... easy to service!

The SWG 300-1 is easy to swing-open. All important parts are easily accessible and therfor ideal to service.



Individual applications

- Ex-zone2 (special model)
- Up to simultaneous7 gas components
- Up to 5 automatic sampling point switching
- Weather proof enclosure IP 65
- Complete / partial air conditioning
- Automatic calibration with test gases
- Sample gas conditioning, also directly after the sampling point
- Easy to service and maintain
- Customized solutions on request

Measuring components

O 2	0 25 %	paramagnetic sensorCirconium oxoide ZrO2electrochemical (long-life sensor)
CO	0 1.000 ppm / 30.000 ppm	NDIR-multi-gas bench
CO ₂	0 3 % / 30 %	NDIR-multi-gas bench
CH4	0 200 ppm / 1.000 ppm	NDIR-multi-gas bench
SO ₂	0 200 ppm / 1.000 ppm	NDIR-multi-gas bench
NO	0 2.500 ppm / 5.000 ppm	NDIR-multi-gas bench
NO ₂	0 500 ppm / 1.000 ppm	catalytic converter

* oxygen measuring principle

Example: Gas sampling probe for low dust flue gas



Stainless steel probe up to 900 °C with flange DN 65 PN 6 with sintered metal filter 3 μ

Gas sampling probes and -lines

MRU offers industrial probes for high and low dust content, for gas temperatures for up to 650 $^{\circ}$ C (stainless steel), for up to 1.100 $^{\circ}$ C (Inconel steel) and for up to 1.700 $^{\circ}$ C (ceramic).

Probes with and without heated filter element and probe tubes in several lengths.

■ see separate probe brochure



Application: Boiler monitoring, 3 sampling point switching Measured flue gas components: NOx·CO·CO2·O2



Application:
Petro-Chemie
Measured flue gas components:
CH4·SO2·NOx·CO·CO2·O2



Application:
Incineration
Measured flue gas components:
502 · NOx · CO · CO2 · O2



(H x W x D) 1.300 x 800 x 600 mm = fiber glass enclosure für outdoor mounting

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