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**Instrumentation and Control**



**FLUE GAS ANALYSER**

# RG 399



since 1997  
DIN EN ISO 9001  
ID: 0110071011

**ADOS GmbH**

**Instrumentation and Control**

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## Application

The **flue gas analyser RG 399** is suitable for supervising exhaust and process gases that contain traces of corrosive gas and /or dust.

The gas preparation before analysing, is achieved by way of a double-filter that is self-regenerating.

## Accessories

Gas extraction with protective cover, test gas connection with fine dust filter, gas extraction pipe, special extraction probe, installation connection pieces, condensate collector with mounting plate, sampled gas cooler with single or double cooling system.

Further accessories can be offered on request, according to the intended measurement task.

## Fields of Application

- Supervision of flue gases
- Supervision of boiler installations
- Supervision of process and exhaust gases
- and many more

## Features

- Various types of measurement sensor can be used
- Long service life of the measurement sensors is ensured by including a pre-cleaning of the test gas to remove any corrosive components
- Gas conditioning specific to the application by the use of various types of filter medium
- Automatic regeneration of the filter used
- Suction system, thus hot test gases can be monitored
- Integrated flow control
- Direct recognition of the warning status by way of a coloured LC-Display
- Menu-assisted operation via two keys
- Three alarm levels, independently adjustable from 5–100% of the measurement range
- Three floating alarm outputs for controlling external warning and control devices
- Floating fault contact
- Serial output RS 232 or RS 485
- 4–20 mA current interface
- Various designs of housing are available, for example, 19" rack system, wall-mounting housing
- High standard of service reliability
- Low current consumption
- Un-interruptible power supply (UPS) is available

## Technical Data

### Detail applies to one control unit

Sensors:	Heat reaction sensor Heat conductivity sensor Chemical measurement cell Infrared sensor
Sensor input:	1 two-wire or three-wire sensor
Sensor supply:	20 V= / 200 mA
Measurement range:	CO: 0 -100 ppm CO <sub>2</sub> : 0 - 20 Vol% O <sub>2</sub> : 0 - 25 Vol%
Measurement accuracy:	< 2 % or < 5 % f.s.d. (dependent on measurement principle)
Ambient temperature:	-10 °C to +40 °C
Influence of temperature:	< 2 % at ±20 °C change in temperature
Installation:	Panel or wall mounting
Output signals:	Current output 4–20 mA Interface RS 232 or RS 485 3 alarm relays 1 fault relay
Relay switch rating:	230 V, 450 VA other voltages by request
Mains voltage supply:	230 V/50Hz
Optional:	115 V/60 Hz
Power consumption:	300 VA
Dimensions (W x H x D):	710 x 600 x 380 mm
Weight:	approx. 45 kg

## Measurable gases

Gas	Formula
Carbon dioxide	CO <sub>2</sub>
Carbon monoxide	CO
Methane (natural gas)	CH <sub>4</sub>
Oxygen	O <sub>2</sub>
Hydrogen	H <sub>2</sub>