Gas Analyzer
GA 315 formaldehyde

The GA 315 allows easy online measurement of IR-active substances in gas streams having temperatures of up to 300 degrees Celsius, e.g. formaldehyde concentrations in combustion processes.

use

Formaldehyde measurements in the exhaust of gas engines on biogas or landfill gas plants, measurements of gas constituents that are usually not captured without loss when using a gas cooler.

advantages

- directly measured value display
- measuring principle NDIR
- high long term stability
- regulation of a heated sample gas line
- easy handling
- data communication via integrated computer

fields of application

- industries
- waste management facilities
- energy production
- monitoring
- motor production

Made in Germany

We are your competent partner for gas measurement applications.

Our analyzers are developed and produced exclusively in Germany.

Contact

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**technical data**

**model:** Gas Analyzer 315 formaldehyde

**measuring inputs:** 1 gas inlet front heated

**measurement:** NDIR one beam principle, cuvette heated up to 85°C / 185°F

**measuring range:**
- formaldehyde: 0 - 200 mg/m³
- methane: 0 - 7000 mg/m³
- humidity: 0 - 300 g/m³

**measurement precision:**
- formaldehyde: < 5 % of the measured value
- methane: < 5 % of the measured value

**detection limit:**
- formaldehyde 4 mg/m³
- methane 200 mg/m³

**pressure compatibility:** compensated, 0.7 to 1.1 bar / 10.15 to 15.95 psi (pressure of process gas)

**gas flow:** ca. 4 l/min / 140.78 oz/min

**gas conditioning:** plug heated analysis tube

**filter:** stainless steel sintered filter with 90 Micron

**tube connections:** quick connector

**gas lane:** stainless steel cutting ring

**housing:** 19” slide-in; 400 mm / 15.75 inch depth, IP 20

**climatic conditions:** ambient temperature 5°C - 45°C / 41° - 113°F / relative humidity ~ 90 %, dew free

**supply voltage:** ~ 230 V / 50 Hz, 5.7 A / 1300 VA

**display:** 840 x 640 touch panel, Windows CE 5.0 R3

**operation:** touch display resistive

**electrical inputs:** 6 digital inputs 24 V AC/DC

**electrical outputs:**
- 1 digital output “ready” (relay) max. 48 V / 500 mA
- 4 digital outputs (relay) max. 48 V / 500 mA;
- 4 analog outputs (galvanically isolated) 4-20 mA

**interfaces:** standard RS232

optional: Profibus DP, Ethernet Modbus TCP, Ethernet IP, Profinet

**operational availability:** heating up max. 30 Min. (at 20°C /68°F)