



**MULTI-CHANNEL GAS ANALYSER**

# Biogas 401





**Application**

The **Biogas Analyser 401** monitors either continuously or intermittently, the gas components contained in the Biogas and optionally, monitors the surrounding air to provide an early warning of dangerous, explosive and non-combustible gases and vapours.

**Accessories**

Signal horn, warning light, warning banner, plotter.

Other accessories will be offered, according to the measurement tasks required.

**Fields of Application**

- Monitoring of Biogas components
- Warning of explosive gas mixtures
- Warning of gases that endanger health
- Warning of non-combustible gases

**Features**

- Use of various measurement sensors
- Direct indication of a warning state on an LC-display with colored background lighting
- Menu-assisted operation via 2 keys
- 3 alarm levels, independently adjustable from 5 to 100 % of the selected test range
- 3 floating alarm outputs for driving external warning and control equipment
- Floating contact connections for fault and mains failure
- Serial interface output, RS 232 or RS 485
- 4-20 mA current interface
- Various types of housing available, e.g. 19" rack system, wall-mounting cabinet
- Up to 6 measurement channels per unit
- 1 card as Master, for controlling intermittent operation Biogas measurement time and test interval
- Extreme service reliability
- Low energy consumption
- Peltier cooling element with condensation pump
- Flow-through adjustment
- Gas components – filter system and conditioning

**Technical Data**

Details apply, per control unit

Sensors:	Electrochemical sensors Infrared sensors Semiconductor sensors
Sensor input:	2-wire sensors (592 TOX) or 3-wire sensors (GTR 196) for warning of explosive gas mixtures
Sensor supply:	24 V DC / 200 mA max.
Test ranges:	CH <sub>4</sub> : 0-100 Vol % H <sub>2</sub> S: 0-500 / 2000 / 5000 ppm CO <sub>2</sub> : 0-50 Vol % O <sub>2</sub> : 0-21 Vol % H <sub>2</sub> : 0-2 Vol % other ranges by request
Accuracy:	< ±3 %, f.s.d.
Ambient temperature:	+5 °C to +45 °C
Temperature effects:	< 5 % for a ±20 °C change
Installation:	Wall-mounting
Output signals:	Current output 4-20 mA; RS 232 or RS 485 interface;  for each measurement channel: 3 alarm relays 1 fault relay
Relay rating:	230 V, 500 VA
Voltage supply: optional:	230 V, 50 Hz 115 V, 60 Hz
Power consumption:	100 VA
Dimensions (W x H x D):	600 x 478 x 500 mm (9 HU)
Weight:	approx. 50 kg

**Measurable gases**

Gas	Formula
Methane	CH <sub>4</sub>
Hydrogen sulphide	H <sub>2</sub> S
Carbon dioxide	CO <sub>2</sub>
Oxygen	O <sub>2</sub>
Hydrogen	H <sub>2</sub>
other gases by request	

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