



MULTI-CHANNEL GAS ANALYSER

Biogas 905





Application

The **Biogas Analyser 905** 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

- Up to 5 sensors for Biogas measurements
- Up to 3 sensors for room monitoring
- Time-controlled measurements in intermittent mode
- 4-line display, each line with 16 characters
- Menu-assisted operation via 6 keys
- 16 freely configurable alarms (max. 3 per measurement point or sensor)
- Adjustable alarm threshold, from 5 to 100 % of the measurement range
- A minimum of 5 floating alarm contacts for optional assignment
- Floating service and fault contact
- 5 analog outputs, 4-20 mA
- 5 digital inputs for control functions (initiating a measurement, selection of a measurement point)
- Double measurement change-over switch in the standard housing (optional); extras by request
- Serial output RS 232 or RS 485
- Manual flow-through adjustment
- Gas components-filter system and conditioning
- Condensate collector for external installation
- High degree of operational reliability
- Low power consumption

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 ₄ : 0-100 Vol % H ₂ S: 0-500 / 2000 / 5000 ppm CO ₂ : 0-50 Vol % O ₂ : 0-21 Vol % H ₂ : 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 a minimum of 5 floating alarm contacts for optional assignment; 1 fault relay 1 service 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 500 x 400 mm (9 HU) |
| Weight: | approx. 35 kg |

Measurable gases

| Gas | Formula |
|------------------------|------------------|
| Methane | CH ₄ |
| Hydrogen sulphide | H ₂ S |
| Carbon dioxide | CO ₂ |
| Oxygen | O ₂ |
| Hydrogen | H ₂ |
| other gases by request | |

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