

# **Instrumentation and Control**



# **MULTI-CHANNEL GAS ANALYSER**

# Biogas 905



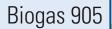
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### **MULTI-CHANNEL GAS ANALYSER**



## **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.

# 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 5 100 % 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
- Water sensor for the detection of condensate break-through
- Monitoring of more than one measuring point possible

Meas	urab	le a	ases

Gas	Formula
Methane	CH <sub>4</sub>
Hydrogen sulphide	H <sub>2</sub> S
Carbon dioxide	CO <sub>2</sub>
Oxygen	02
Hydrogen	$H_2$

#### **Accessories**

Signal horn, warning light, warning banner, plotter.

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

### **Technical Data**

Technical Data		
Details apply, per control unit		
Sensors:	Electrochemical sensors Infrared sensors	
Sensor input:	2-wire sensors (TOX 592) or 3-wire sensors (GTR 196) for warning of explosive gas mixtures	
Sensor supply:	24 V DC / 200 mA max.	
Test ranges:	$CO_2$ : 0 - 50 Vol.% $CH_4$ : 0-100 Vol.% $O_2$ : 0 - 21 Vol.% (optionally continuous) $H_2$ : 0 - 0,2 2 Vol. % $H_2$ S: 0 - 50 ppm 0 - 5.000 ppm (only discontinuous) other ranges by request	
Accuracy:	< ±3 %, f.s.d.	
Ambient temperature:	+41 °F to +113 °F	
Temperature effects:	< 5 % for a ± 68 °F 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:	115 V, 60 Hz 230 V, 50 Hz	
Power consumption:	100 VA	
Dimensions (W x H x D):	23.62 x 19.68 x 15.75 inch (9 HU)	
Weight:	approx. 77.16 lbs	
	Details apply, per control Sensors:  Sensor input:  Sensor supply: Test ranges:  Accuracy: Ambient temperature: Temperature effects: Installation: Output signals:  Relay rating: Voltage supply: optional: Power consumption: Dimensions (W x H x D):	