# SWG 100 biogas

### The versatile analyser

Stationary Biogas-measuring system for continuous measurements



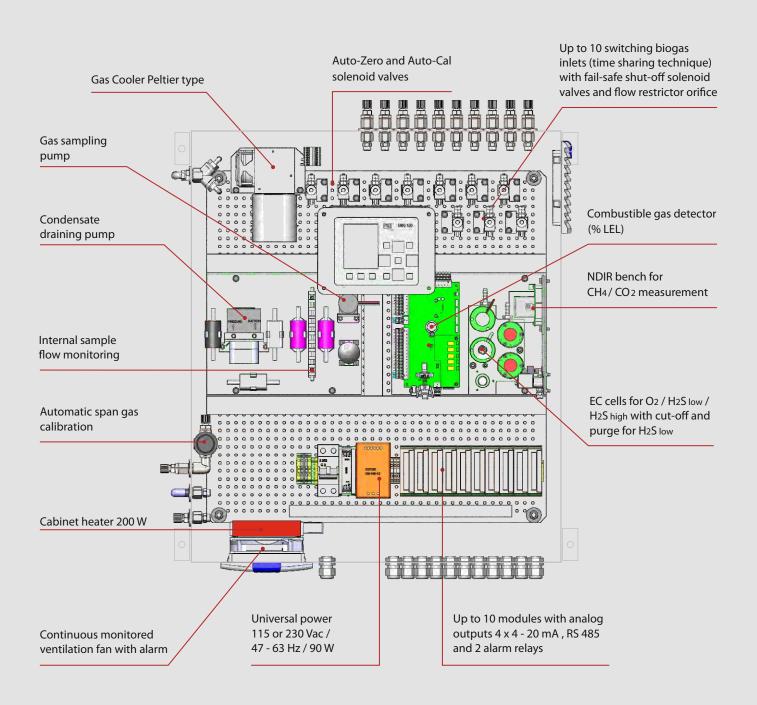


- For Biogas, Biomethane, Landfill Gas, Coalbed Methane
- Continous measurement
- Up to 10 sites monitoring
- Ready to run delivery, minimum installation work

## The versatile analyser for Biogas, Biomethane, Landfill Gas, Coalbed Methane

MRU biogas analyser of series SWG100, are designed for use in the harsh industrial environment of different sites where biogas is produced.

The analyser can be installed in outdoor or indoor location, can sample dry or wet biogas, pressurized or low pressure gas and can be used from single point sampling up to max 10 sampling points.





## SWG 100 biogas



#### **Convincing benefits:**

- industry compatible rugged design for harsh industrial environment
- standard system safety included with continuous ly m onitored fan ventilation of cabinet, gas flow restrictor orifice at gas inlet
- efficient sample gas preparation for fast and reliable measurements
- no dilution of the sample gas, neither use of compressed air is required
- direct and continuous/discontinuous measurement, with pressure and temperature compensation and event data logging
- up to 10 sites monitoring (time sharing technique) with only one analyser
- ready to run delivery, minimum installation work





SWG 100 biogas	Standard	Option
Basic analyser for wall (rack) mounting, IP54 aluminum cabinet with anti-corrosive red structural lacquer	•	
Monitored ambient air ventilation with display and system alarm, including flow restrictor orifice and cutoff gas supply solenoid valve	•	
Sample gas pump and internal sample flow monitoring with display and system alarm	•	
Solenoid valve for auto-zero with ambient air and calibration	•	
Auto-calibration using span gas mixture cylinder	•	
1/8" threads for all sample gas, zero gas and calibration gas inlets, fittings for DN6/4 mm tube	•	
3,5"TFT color, backlit display and keyboard, password protected operation	•	
RS 485 digital data transfer (Modbus RTU)	•	
Combustible gas detector (%LEL) mounted inside analyser cabinet (alarm limit value based on CH4)		•
Electric gas cooler (Peltier) with automatic condensate draining pump		•
Multiple sampling point switchover from 2 up to maximum 10 sites		•
Module with 4 channel analog outputs/inputs 4 - 20 mA and 2 x alarm relays		•
Analyser remote control using 4 external relay contacts		•
Converter module of RS 485 into Profibus		•
Cabinet heater for freeze protection		•
Flame arrester		•



Product information: see www.mru.eu

or scan adjacent QR-code

### **SWG** 100 biogas

### **Technical specifications**

		_		Accuracy	
Carbon dioxide CO2 ir Oxygen O2 e Hydrogen sulfide H2S e Hydrogen sulfide H2S low Hydrogen sulfide H2S high e	nfrared ec, continously ec, discontinously ec, discontinously ec, continously	0 – 100 % 0 – 100 % 0 – 25 % 0 – 2.000/4.000 ppm* 0 – 200/1.000 ppm* 0 – 10.000/50.000 ppm* 0 – 1.000/2.000 ppm*	0,1 Vol% 0,01 Vol% 0,01 Vol% 1 ppm 1 ppm 1 ppm 1 ppm	± 0,3 Vol% / 3 % of reading** ± 0,3 Vol% / 3 % of reading** 0,2 % abs. ± 10 ppm / 10 % of reading** ± 5 ppm / 10% of reading** ± 50 ppm / 5 % of reading** ± 10 ppm / 10 % of reading**	
Calculated components C	Calorific value: 0 – 50 MJ/m³; MJ/kg				
B; 4 2 R;	3,5"TFT color display Backlit keyboard, password protected operation 4 analog output 4-20 mA, floating, max. load 500R 2 alarm relays, potential free contacts 24 Vdc/5 A RS 485 digital interface (Modbus RTU) DIN-rail RS 485 / ProfiBus converter				
St Sa	Monitored cabinet ventilation fan Stainless steel flow restrictor orifice Sample gas shut-down solenoid valve LEL (CH <sub>4</sub> ) monitoring inside cabinet (option)				
EI Te M Sa	lectric gas cooler eflon Partikelfilter Aonitored and regula	ngs with 1/8" ID threads ted sample flow 4060 -100 mbar to + 300 mba sphere pressure			
Weight / Protection 2. Installation site In	700 x 600 x 210 mm (H x W x D) for wall or rack mounting 25 kg / IP54 Indoor or outdoor (rain and sun shade is mandatory user scope of supply) +5°C+45°C or -10°C+45°C with cabinet heater				
_	Continuous, monitored fan ventilation Cabinet heater 200 W (option)				
Power supply 1	15 or 230 Vac / 47 - 6	5 or 230 Vac / 47 - 63 Hz / 90 W (300 W with cabinet heater)			

#### MRU - over 30 years of innovative gas analysis!

MRU-representative:



MRU · Messgeräte für Rauchgase und Umweltschutz GmbH

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