SWG 100 BIO compact

COMPACT SEMI-CONTINUOUS BIOGAS ANALYZER

4-20mA

RS 485

PROFIBUS

SD

Up to 2 sites monitoring via Time Sharing

O_2

CH_4

CO_2

H_2S

- Cost effective stationary biogas analyzer
- Discontinuous measurement-up to 24 per day
- Suitable for harsh industrial environments
- Up to 2 sites monitoring (times sharing)
- Accurate measurements, incl. plug & play pre-calibrated sensors

MRU AIR fair since 1984 ®

EMISSION MONITORING SYSTEMS

Over 30 years of innovative gas analysis!

SWG 100 BIO compact

This biogas analyzer is designed for use in the harsh industrial environment of combined heat and power (CHP) engine gas monitoring

MAIN FEATURES

- Cost effective stationary biogas analyzer
- Accurate measurements, incl. plug&play, pre-calibrated sensors
- Safety in use with gas flow restrictor orifice at gas inlet and ventilation
- Sampling from low suction up to high pressure gas
- Sample gas conditioning for fast and reliable measurements
- No dilution of the sample gas, nor use of compressed air is required
- Discontinuous measurement, user settable up to 24 measurements per 24 hours
- Up to 2 sites monitoring (time sharing technique) with only 1 analyzer
- IP 54 cabinet for use in harsh environment
- Ready to run delivery, minimum installation work, low service downtime

TECHNICAL SPECIFICATIONS

Measurement components		Measuring range	Measuring method	
CH4	Methane	0 – 100 %	NDIR	
CO2	Carbon dioxide	0 – 100 %	NDIR	
O2	Oxygen	0 – 25 %	electrochemical	
H2S	Hydrogen sulfide	0 - 2,000ppm / 4,000ppm*	electrochemical	* overload for short term measurements only

Calculated component	Calorific value: 0 – 50 MJ/m3; MJ/kg
HMI human machine interface	3.5” TFT color display Backlit keyboard, password protected operation RS485 digital interface (Modbus RTU) Data storage and event logging on SD card
System safety components	Stainless steel flow restrictor orifice Sample gas shut-down solenoid valve
Sample conditioning	Stainless steel gas fittings with 1/8" ID threads Condensate trap with automatic condensate draining pump Teflon particulate filter, internal Viton hosing Sample flow 40 ... 60 l/h Sample inlet pressure: -40 inH2O to +120 inH2O (-100 mbar to +300 mbar) **Sample venting: atmosphere pressure**
Cabinet dimensions	15.74” x 19.68” x 11.81” (400 x 500 x 300 mm) (H x W x D) for wall or rack mounting
Weight / Protection	31lbs (14kg) / IP54
Ambient temperature	41°F …113°F (+5°C…+45°C) or -4°F …113°F (-20°C…+45°C) with cabinet heater
Installation site	Indoor or outdoor (rain and sun shade is mandatory user scope of supply)
Power supply	Universal 90 - 240 Vac / 47 - 63 Hz / 90 W (300 W with cabinet heater)
Options	Flame arrestor I/O-module with: 4x analog output 4...20 mA, floating, max. load 500R, 2x alarm relays, potential free contacts 24 Vdc/5A, DIN rail RS 485, Profi bus converter, cabinet heater 100W LEL (CH4) monitoring inside cabinet

Data subject to change without notice

MRU Instruments, Inc.
Humble, Texas 77338
Tel.: (832) 230 - 0155
Fax: (832) 230 - 1553
info@mru-instruments.com
www.mru-instruments.com

Support and sales by:

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