

## LANDFILL & BIOGAS ANALYSIS

For optimizing production, performance, and reporting

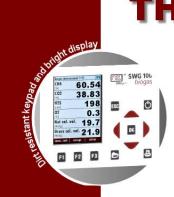


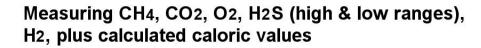


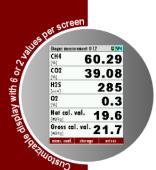
- Easy installation & start-up
- Best in Class Accuracy
- Plug-n-play sensors for simple serviceability
- Designed with safety in mind

Over 30 years of innovative gas analysis!

## THE COMPLETE SOLUTION ...







- Continuous or Semi-continuous operation
- Efficient gas prep provides fast and reliable measurements
- Sampling from low suction to high pressure
- Up to 10 sites monitoring via Time Sharing
- Fresh air auto zero
- Multiple inputs / outputs of (4) 4 to 20mA, (2) alarm relays, RS485 Modbus, Ethernet even Profibus
- Safety: Monitored ventilation fan, gas flow restrictor, optional %LEL detector and fame arrester
- Fast & easy installation: Connect and go with no need for compressed air for dilution
- Optional Auto Calibration



Gas cooler (Peltier type) Up to 10 switching biogas inlets (time sharing)

with fail-safe shut off solenoid valves and flow restrictor orifice



Gas sampling pump

NDIR module for CH4 and CO2

Combustible gas detector (%LEL)

Condensate draining pump

measurement

Electro-chemical cells O2/ H2S low and high / H2



Internal sample flow monitoring

Cut-off and purge for H2S

Continuous monitored ventilation fan with alarm Optional: cabinet heater

Universal power supply 90 - 240 Vac 47 - 63 Hz / 90 W Up to 10 analog output modules 4 x 4 to 20 mA, RS 485 2 x alarm relays

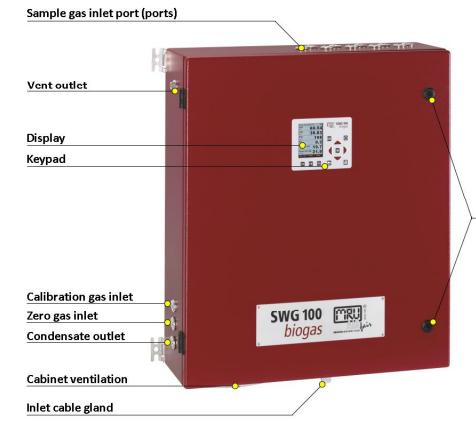
## THE IDEAL SOLUTION FOR ...

- Landfill sites
- Anaerobic digesters
- CHP / WTE cogeneration engines
- Municipal or industrial waste water treatment plants
- Flare inlet / outlets
- CPG production
- Food or animal waste process plants
- Coal bed methane sites











Cabinet lock





## **TECHNICAL SPECIFICATIONS**

Mea	surement compon	ents	Measuring range	Measuring method
CH4	Methane		0 – 100 %	NDIR
CO2	Carbon dioxide		0 – 100 %	NDIR
02	Oxygen		0 - 25 %	electrochemical, continuous
H2S	Hydrogen sulfide	LOW	0 - 1,000ppm	electrochemical, discontinuous
H2S	Hydrogen sulfide	HIGH	0 - 10,000ppm	electrochemical, continuous
H2	Hydrogen		0 - 1,000ppm	electrochemical, discontinuous
Calculated component			Calorific value: 0 – 50 MJ/m3; MJ/kg	
HMI human machine interface		ace	3.5" TFT color display	
			Backlit keyboard, password protected operation	
			4x analog output 4-20 mA, floating, max. load 500R	
			2 alarm relays, potential free contacts 24 Vdc/5 A	
			RS485 digital interface (Modbus RTU)	
			DIN-rail RS485 / Profibus converter	
System safety components			Monitored cabinet ventilation fan	
			Stainless steel flow restrictor orifice	
			Sample gas shut-down solenoid valve	
			LEL (CH4) monitoring inside cabinet	
Sample preparation			Stainless steel gas fittings with 1/8" ID threads	
			Electric gas cooler	
			Teflon particulate filter, internal Viton hosing	
			Monitored and regulated sample flow 4060 l/h	
			Sample inlet pressure: -40 inH2O to +120 inH2O (-100 mbar to +300 mbar)	
			Sample venting: atmosphere pressure	
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Cabinet dimensions			Aluminum with anti-corrosive structural painting	
Weight / Duptostion			27.55" x 23.61" x 8.26" (700 x 600 x 210 mm) ( H x W x D ) for wall or rack mounting	
Weight / Protection			55lbs (25kg) / IP54	
Ambient temperature			41°F113°F (+5°C+45°C) or -4°F113°F (-20°C+45°C) with cabinet heater	
Installation site			Indoor or outdoor (rain and sun shade is mandatory user scope of supply)	
Cabinet conditioning			Continuous, monitored fan ventilation	
			Cabinet heater 200 W (option)	
D			Hairrana   00   240 Na -   47   62 H   100	2.W /200.W
Powe	r supply		Universal 90 - 240 Vac / 47 - 63 Hz / 90	J W (300 W With cabinet neater)

Data subject to change without notice

