

LANDFILL & BIOGAS ANALYSIS

For optimizing production, performance, and reporting



EWISSION WONITORING SYSTEMS

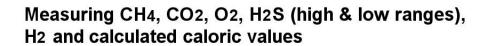
By Since 1984

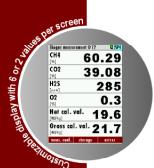
Over 30 years of innovative gas analysis!

- Sampling from low suction up to high pressure gas
- Direct and continuous / discontinuous measurement
- No dilution of the sample gas
- Easy installation & start-up

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

Combustible gas detector (%LEL)

> NDIR module for CH4 and CO2 measurement

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



Condensate draining pump

Internal sample flow monitoring

Continuous monitored ventilation fan with alarm

Optional: cabinet heater

Universal power supply 90 - 240 Vac 47 - 63 Hz / 90 W Cut-off and purge for H2S

Up to 10 analog output modules 4 x 4 to 20 mA, RS 485

2 x alarm relays

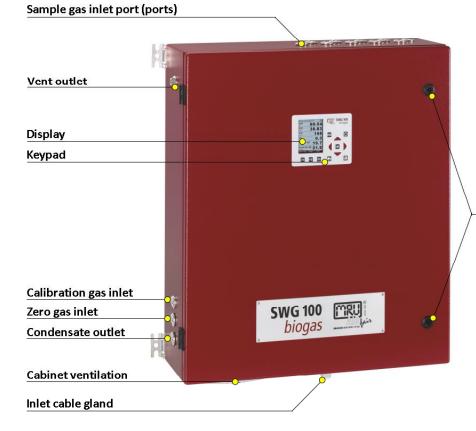
THE IDEAL SOLUTION FOR ...

- 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

















TECHNICAL SPECIFICATIONS

Measurement components			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 - 200 / 1,000ppm	electrochemical, discontinuous	
H2S	Hydrogen sulfide	STANDARD	0 - 2,000ppm / 4,000ppm	electrochemical, discontinuous	
H2S	Hydrogen sulfide	HIGH	0 - 10,000ppm / 50,000ppm	electrochemical, continuous	
H2	Hydrogen	-	0 - 1,000ppm	electrochemical, discontinuous	
	70-		. ,		
Calculated component			Calorific value: 0 – 50 MJ/m3; MJ/kg		
HMI human machine interface			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		
Cabinet dimensions Weight / Protection Ambient temperature Installation site Cabinet conditioning			Aluminum with anti-corrosive structural painting 27.55" x 23.61" x 8.26" (700 x 600 x 210 mm) (H x W x D) for wall or rack mounting 55lbs (25kg) / IP54 41°F113°F (+5°C+45°C) or -4°F113°F (-20°C+45°C) with cabinet heater Indoor or outdoor (rain and sun shade is mandatory user scope of supply) Continuous, monitored fan ventilation Cabinet heater 200 W (option)		
Power supply			Universal 90 - 240 Vac / 47 - 63 Hz / 90 W (300 W with cabinet heater)		

Data subject to change without notice

