

# SWG 200 Bio

## TECHNICAL SPECIFICATIONS

Measured components	Measuring method	Measuring range	Resolution	Accuracy
Methane CH <sub>4</sub>	infrared	0 ... 100%	0.1 Vol%	± 0.3 Vol% / 3 % of reading**
Carbon dioxide CO <sub>2</sub>	infrared	0 ... 100%	0.01 Vol%	± 0.3 Vol% / 3 % of reading**
Oxygen O <sub>2</sub>	ec, continuously	0 ... 25%	0.01 Vol%	0.2 % abs.
Hydrogen sulfide H <sub>2</sub> S low	ec, discontinuously	0 ... 50/250 ppm*	1 ppm	± 2 ppm / 5 % of reading** (0 ... 50ppm)
Hydrogen sulfide H <sub>2</sub> S	ec, discontinuously	0 ... 2,000/4,000 ppm*	1 ppm	± 10 ppm / 10 % of reading**
Hydrogen sulfide H <sub>2</sub> S high	ec, discontinuously	0 ... 5,000/10,000 ppm*	1 ppm	± 5 ppm / 5 % of reading** 0 ... 5000ppm)
Hydrogen H <sub>2</sub>	ec, discontinuously	0 ... 1,000/2,000 ppm*	1 ppm	± 10 ppm / 10 % of reading**
Hydrogen H <sub>2</sub>	ec, discontinuously	0 ... 1% / 2%*	1 ppm	± 10 ppm / 10 % of reading**
Hydrogen H <sub>2</sub>	TCD, continuously	0 ... 3%	0.01 %	± 0.5% / 5% of reading**
Carbon monoxide CO	ec, discontinuously	0 – 10,000/20,000 ppm*	1 ppm	± 10 ppm / 3 % of reading**

### H<sub>2</sub>S dilution systems 50:1

for landfills and other high H<sub>2</sub>S applications, not only has the range been extended, but additionally, high resiliency sensors can be used providing better accuracy and stability, especially in difficult applications such as landfills, dairy digesters, etc.

Calculated component	Calorific value: 0 – 50 MJ/m <sup>3</sup> ; 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 with alarm Stainless steel flow restrictor orifice Sample gas shut-down solenoid valve LEL (CH <sub>4</sub> ) monitoring inside cabinet (option)
Sample preparation	Stainless steel gas fittings with 1/8" ID threads Electric gas cooler (Peltier type) (option) Teflon particulate filter, internal Viton hosing Sampling biogas with condensate of max. 14ml/min Monitored and regulated sample flow 40...60 l/h Sample inlet pressure: -40 inH <sub>2</sub> O to +80 inH <sub>2</sub> O (-100 mbar to +200 mbar) Sample venting: atmosphere pressure
Cabinet dimensions	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
Weight / Protection	55lbs (25kg) / IP54
Ambient temperature	41°F ... 113°F (+5°C...+45°C) or 14°F ... 113°F (-10°C...+45°C) with cabinet heater
Installation site	Indoor or outdoor (rain and sunshade are mandatory user scope of supply)
Cabinet conditioning	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 \* overload for short-term measurements only \*\* the higher value applies