



### Technical data for SWG 100 BIOGAS

Please provide the following information to help us provide a system that exactly suits your requirements.

Please don't hesitate to contact us if you have any questions or if you need help filling out this questionnaire.

CUSTOMER:	Email:	
	Phone:	
	Date:	

Industry:		<i>Others *1</i>
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SWG 100 Biogas analyzer Ready to run after power up	WITH
<ul style="list-style-type: none"> <li>• IP54 aluminum cabinet with anti-corrosive red structural lacquer and monitored fan ventilation</li> <li>• regulated sample gas pump with sample gas flow monitoring and adjustment</li> <li>• filtration of sample gas and of acid gases before sample gas flow sensor</li> <li>• solenoid valve for auto-zero with clean ambient air and for manual calibration</li> <li>• sample gas supply cut-off in case of system alarm, using "fail-safe" solenoid valve (normally closed) one gas sampling inlet complete is already included</li> <li>• all stainless steel gas connectors 1/8"ID threads, with 6mm bulkhead compression fittings (also replaceable by user)</li> <li>• stainless steel adapter 1/8" I - 1/8" O, with flow restrictor orifice, to be mounted at sample gas inlet from high pressure sampling</li> <li>• human machine interface with color TFT display, keyboard and RS485 interface (Modbus RTU)</li> <li>• all password protected, intuitive software guided menu, with diagnosis software and logbook</li> <li>• universal power supply 90-240Vac/47-63Hz/90W</li> </ul>	

Please select the sensors needed for your application:

SENSORS	Range	Part #
<input type="checkbox"/> NDIR bench for CH4 - CO2 analysis	0 - 100% / 0 - 100%	<b>65128</b>
<input type="checkbox"/> Long life electrochemical cell for O2 analysis	0 - 25%	<b>65419</b>
<input type="checkbox"/> H2S low electrochemical cell measurement <i>including H2S sensor cutoff valve and air purging pump for sensor protection</i>	0 - 2,000ppm (5,000ppm*)	<b>65933</b>
<input type="checkbox"/> H2S high electrochemical cell measurement <i>Note: use of H2Slow is highly recommended for improved measurement accuracy</i>	0 - 10,000ppm (50,000ppm*)	<b>65421</b>
<input type="checkbox"/> H2 electrochemical cell measurement	0 - 1,000ppm (2,000ppm*)	<b>65422</b>
<input type="checkbox"/> H2 thermal conductivity detector measurement <i>with minimum range of 10% and special cross-sensitivity correction software</i>	0 - 100%	<b>65800</b>
<input type="checkbox"/> CO electrochemical cell measurement <i>Note: cannot be used together with 65422 H2 Sensor</i>	0 - 4,000ppm (10,000ppm*)	<b>65423</b>

**(\*) is maximum overload range, suitable only for short measuring time**



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[Please select the options needed for your application:](#)

OPTIONS	Part #
<input type="checkbox"/> Electric sample gas cooler (Peltier type) and condensate draining pump	65408
-- Multiple sample point switching and monitoring (time sharing) <i>Note: order 1x or 2x or up to max. 9x this item (one for each additional sampling point)</i>	65177
<input type="checkbox"/> RS485 to Profi-Bus converter	66029
<input type="checkbox"/> RS485 to Ethernet converter	66030
-- Module with 4channel 4-20mA analog output and 2 alarm relays (NO contacts "fail safe") <i>Note: recommended is using one module for each sampling point</i>	65179
<input type="checkbox"/> Analyzer external control via 4x contacts (relays or open collector transistors) <i>NOTE: this option requires at least one I/O module #65179</i>	65430
<input type="checkbox"/> Cabinet 200W heater, temperature regulated, for freeze protection at low ambient air temperatures from -20°C to +5°C <i>for use in safe area only (120VAC)</i>	66009
<input type="checkbox"/> Filtered condensate catch pot with automatic draining, (complete with fittings and canister) <i>NOTE: for mounting at the sampling point of very wet digester or wet / dirty biogas sampling (client scope)</i>	65818
-- Teflon (PTFE) gas sampling line - 0.16"/0.24" 3.28' (DN4/6mm, 1m length)	50624
<input type="checkbox"/> Consumable parts set for one year operation <i>Note: set of particulate filter, activated carbon filter, purafil filter, replaceable hose set for condensate pump</i>	65426
<input type="checkbox"/> Service set <i>NOTE: set of all filters (routine replacement by user)</i>	66174

[Please select the safety options needed for your application:](#)

SAFETY	Part #
<input type="checkbox"/> Additional safety precautions to increase the safety level in use <i>NOTE: included #65435, LEL gas detector with system alarm in case of inside cabinet leakage</i>	65971
<input type="checkbox"/> Gas detector (%LEL CH4) to monitor air inside analyzer cabinet	65435
<input type="checkbox"/> Flame arrestor with 1/4"ID thread, to be mounted directly on biogas pipe at the sampling point or at sample gas inlet <i>(client scope)</i>	65427

[Your comments:](#)

Email this questionnaire to: [info@diamondsci.com](mailto:info@diamondsci.com)

We will be more than happy to send you a quotation for the above chosen Analyzer and Options. If you have any questions regarding this Analyzer or any other of our Analyzers and Instruments, please feel free to contact us at any time.