SWG 100 *CEM*

STATIONARY ANALYZER

for Continuous Emission Monitoring

Low cost, reliable system for emission monitoring and combustion checking of various industrial sites, using extractive method and tailored to your needs



The complete, ready to use flue gas analyzer **SWG100** CEM is the low cost industrial solution to be used with a wide variety of emission sources:

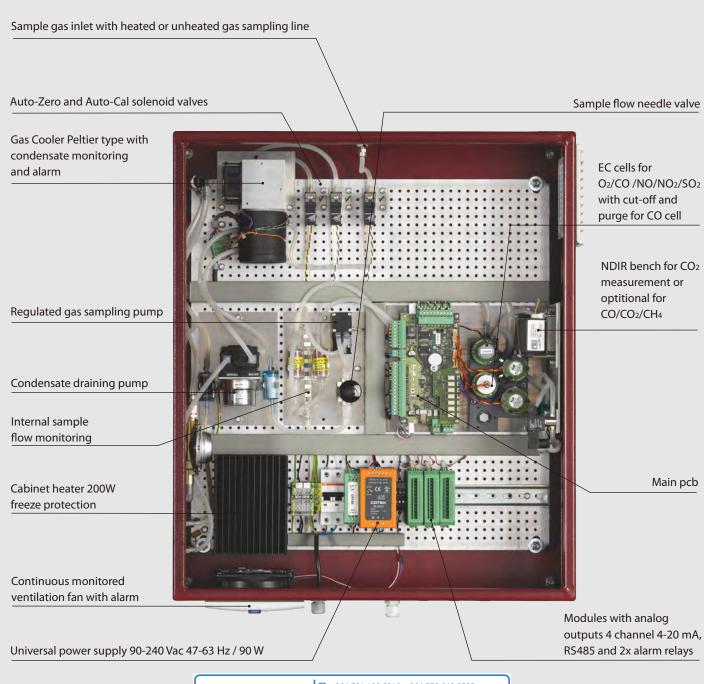
- small power plants, small gas turbines
- cogeneration heat and power engines (CHP)
- waste incinerators, ovens and kilns
- industrial heaters and dryers
- food industry steam boilers
- biomethane and methane boilers
- ethanol and palm oil plants and more





Instrument main features are:

- very compact industrial design, for up to 6 gas simultaneous measurement
- use low cost but reliable electrochemical cells for O₂, CO, NO, NO₂, SO₂
- and infrared module (ndir) for CO₂ measurement or 3-gas ndir for CO/CO₂/CH₄
- advanced sample gas preparation for fast and reliable measurements
- flexible platform can be used for various combustion applications
- direct and continuous/discontinuous measurement, with pressure and temperature
- compensation of all main flue gas parameters
- external measurements (temperature, pressure, etc) by reading of ext. standard signal
- simple installation, ready to run delivery and easy to maintain





MRU continuous emission monitoring analyzer of series **SWG100** CEM, is designed for use in the harsh industrial environment of different combustion sites, where flue gas emissions must be continuously monitored.

The analyzer can be installed in outdoor or indoor locations, can sample dry or wet flue gas, pressurized or low pressure flue gas, even from a long distance sampling point.

The analyzer system can be configured with different gas sampling probes and sampling lines to optimize the sample gas preparation.



Gas sampling probe HD-GW heated, with borosilicate quartz filter element

SWG100 CEM standard option

Basic analyzer for wall or rack mounting, IP54 protection, aluminum cabinet with anti-corrosive red structural lacquer and fan ventilation

Condensate separator and automatic condensate draining pump

Monitored ambient air ventilation, with alarm display for fan rotation failure

Sample gas pump and internal sample flow monitoring with alarm in case of filter clogging Solenoid valve for auto-zero with ambient air and

for auto-calibration with span gas 1/8" threads for all sample gas, zero gas and calibration gas inlets, fittings for DN6/4mm tube

3,5"TFT color, backlit display and keyboard, password protected operation

RS485 digital data transfer (Modbus RTU) Universal power supply 90 - 240 Vac /

47-63 Hz / 90 W

O₂ measurement with long-life EC cell CO measurement with protected EC cell using

cut-off solenoid valve and air purging pump

NO measurement with EC cell

 NO_2 measurement with EC cell

SO₂ measurement with EC cell

CO₂ measurement using infrared (NDIR) module or CO/CO₂/CH₄ with 3-gas infrared (NDIR) module

Thermoelectric gas cooler (Peltier) with constant dew point and condensate monitoring and alarm

Heated gas sampling probe model HD, with ceramic filter and back-purge, for flying ash type

flue gases

Heated gas sampling probe model HD-GW, with quartz glass wool filter for acid mist flue gases Unheated gas sampling probe model LD, for clean combustions, using in-situ sintered metal filter

Heated gas sampling lines, from 5 to 75 m length, with temperature regulation by analyzer or by internal thermostat, with single or dual PTFE

4/6 mm tube

Module with 4 channel analog outputs/inputs 4-20 mA, with 2x "fail safe" alarm relays

with 2x fall sale diariff felays

Converter module of RS485 into Profibus

Cabinet heater for freeze protection



Gas sampling probe LD unheated, with in-situ sintered metal filter



Gas sampling probe HD heated, with ceramic filter and back-purge



Gas sampling line Teflon, heated with temperature regulation



Thermoelectric gas cooler Peltier type with condensate monitoring and alarm



Product information: see www.mru.eu

or scan adjacent QR-code

MRU – sustainable analysing technology for more than 30 years!

MRU-representative:





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