



since 1984 ®

AIR *fair*

EMISSION MONITORING SYSTEMS

PRODUCT LINE DIRECTORY

300 HC / 300 CO

Digital gas detectors for HC or CO
with programmable alarm settings



Main features:

- AA battery operated
- Big and bright display
- Menu guided software and function keys
- Light and small
- Interface for external printer
- Programmable alarm settings
- Visual and audible alarm

DM 9200

Digital microprocessor-controlled
manometers with multiple ranges and functions



Main features:

- AA battery operated
- Big and bright display
- Selectable meas. units
- Menu guided software and function keys
- Light and compact
- Interface for external printer
- Piezoelectric sensor

AMPRO 1000

O₂ and CO handheld analyzer



- Touch screen display
- MSM sensor technology for field replaceable sensors
- CO measurement 0 - 4,000ppm / 10,000ppm
- CO ambient measurement
- Gas temperature measurement
- Combustion air temperature
- Stack / Differential pressure
- Differential temperature measurement

AMPRO 2000

Up to 7-gas handheld analyzer



The **AMPRO 2000** is a true 7-sensor handheld emission analyzer which can be equipped with up to 6 electrochemical sensors and a CO₂ NDIR-bench.

- Rugged, ergonomic design
- Easy to read 3.5" color display
- Advanced water-removal and filtration
- Mini-USB interface for data transfer & battery charging
- IR interface for external printer
- Internal data storage for up to 16000 measurements
- User-friendly software
- Rechargeable battery for up to 15 hours operation
- Integrated SD card reader
- Stainless steel gas and pressure connectors
- OPTIONAL Bluetooth for wireless data transfer

NOVA *compact*

High-tech, innovative flue gas analysis



Fast and accurate measurements
for all gas, oil and solid fuel
applications

- HIGH capacity condensate separator / OPTIONAL gas cooler
- Built in thermal printer
- Rugged transport case
- Suitable also for CHPs (cogeneration heat and power engines)
- Differential temperature measurement
- Differential pressure measurement
- Flow velocity measurements

NOVA *plus*

SIMULTANEOUS MEASUREMENT OF UP TO 8 gas components



Includes remote control unit (RCU)
for wireless analyzer operation

OPTIONAL multi function RCU

- HIGH capacity condensate separator / OPTIONAL gas cooler
- Built in thermal high speed printer
- Rugged transport case
- Suitable also for CHPs (cogeneration heat and power engines)
- Differential temperature measurement
- Differential pressure measurement
- Flow velocity measurements
- Lithium-Ion battery in RCU and base unit

VARIO *plus* Industrial

SIMULTANEOUS MEASUREMENT OF UP TO 9 gas components



Suitable for industrial applications using combined infrared technology and electrochemical sensors.

- Integrated gas cooler and
- High speed printer
- Many available OPTIONS
- Heated sampling line
- 4-20 mA output

VARIO *plus* SYNGAS

Long-term process gas analysis for specialty gases



PORTABLE
VERSATILE
RUGGED

- Suitable for semi-continuous measurements of "syngas" including the following applications:
- Steel industry: coke oven gas, blast furnace gas
- Biomass or coal catalytic oxidation (gasification)
- Waste gasification process, plasma gasification process
- Steam reforming of liquid hydrocarbons (refinery gas etc.)
- Flare gases
- Research ... and others

MGA 5

PROFESSIONAL AND PORTABLE MONITORING OF PROCESS GASES



Portable and continuous infrared measurement of different gases make this unit ideal for a wide range of applications.

Continuous process gas, emissions and combustion monitoring is now available in a high accuracy, portable analyzer.

MGA 5 *plus*

RELIABLE, PORTABLE MONITORING OF EMISSIONS



**High-quality, mobile NDIR
MULTIGAS ANALYZER for emissions
monitoring and combustion analysis.**

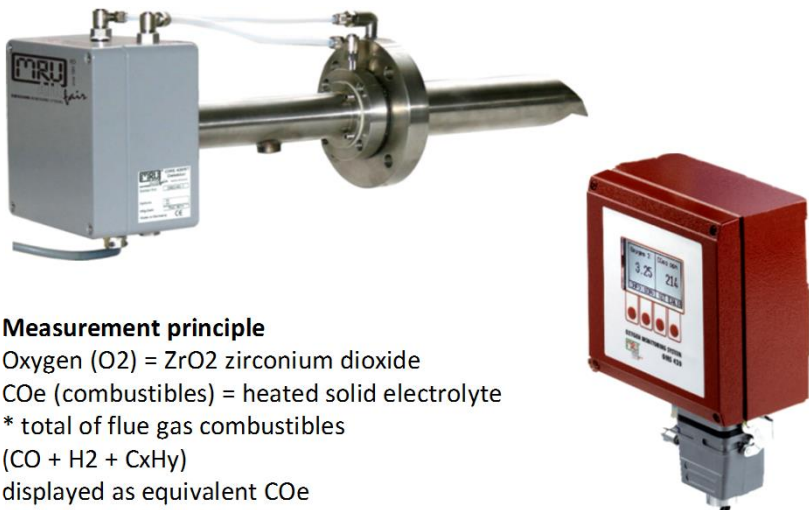
The high-quality infrared modules allow the detection of even low gas concentrations.

To maximize the portability and flexibility of the MGA 5 platform, we include two carrying cases.

Analyzer and gas conditioning are placed in separate carrying cases.

OMS 420

IN-SITU real time analysis
oxygen (O₂) and
combustibles (CO_e)*



Measurement principle

Oxygen (O₂) = ZrO₂ zirconium dioxide

CO_e (combustibles) = heated solid electrolyte

* total of flue gas combustibles

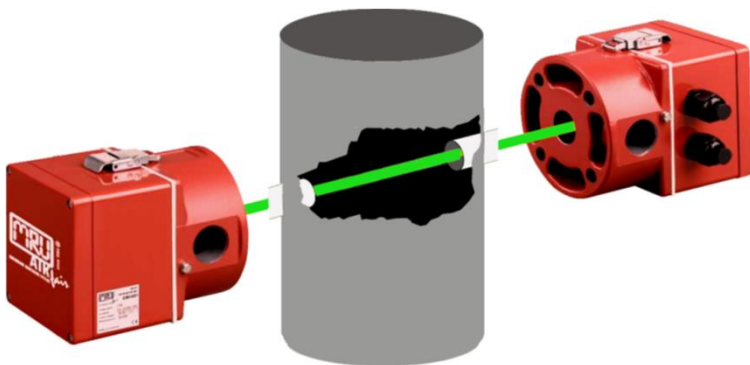
(CO + H₂ + C_xH_y)

displayed as equivalent CO_e

(now also available for hazardous are zone 2)

DM 401

Dust monitoring system
double pass transmission
measurement



Measures 0 ... 100 % opacity

or 10 ... 1,000 mg/m³ dust (*)

(*) after on site calibration according to VDI 2066

SWG 100 CEM

Continuous emission monitoring



- Accurate measurements, including plug & play pre-calibrated sensors, easy field replaceable
- Up to 6 gas measurements for O₂ - CO - NO - NO₂ - SO₂ - CO₂
- No dilution of sample gas is required, MRU sensor management technology
- Direct and continuous/discontinuous measurement, with pressure and temperature compensation
- Peltier electric gas cooler with automatic condensate draining pump
- Automatic zeroing using clean ambient air and automatic calibration with cylinder mixture gas
- Internal sample flow monitoring and alarm for filter clogging
- Ready to run delivery, minimum installation work

SWG 200-1

Cost-effective analysis technology in a compact design.



- Economical and efficient
- Both infrared modules and electrochemical sensors are used in the SWG 200 -1
- This multi-gas analyzer is appropriate when cost-effective solutions are required for a fixed emissions system
- The compact package uses IR modules and electrochemical sensors to continuously, selectively, and precisely measure gas components in ppm and % ranges (high and low concentrations)

SWG 300-1

COMPLETE CEM SYSTEM

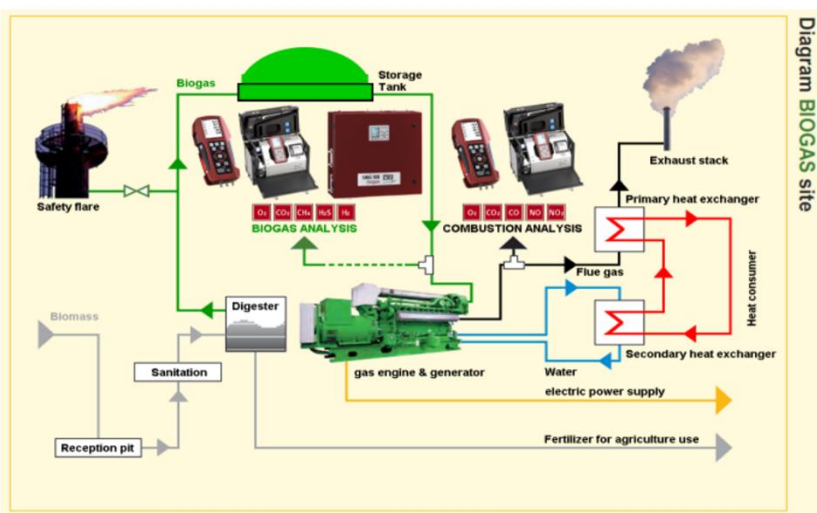


EMISSIONS MONITORING

PROCESS GAS OPTIMIZATION

PRECISE - POWERFUL AND EFFICIENT

- Ex-zone2 (special model)
- Up to simultaneous 7 gas components
- Up to 5 automatic sampling points (switching)
- Weather proof enclosure IP 65
- Complete / partial air conditioning
- Automatic calibration with test gases
- Easy to service and maintain
- Customized solutions on request



OPTIMA 7 - BIOGAS

For biogas and engine exhaust gas measurement



- Simultaneous measurement of up to 4 (max. 7) gases
- Biogas measurement: O₂, H₂S, CH₄ and CO₂
- O₂ measurement 0 - 25.00%, using long-life sensor
- Biogas / differential pressure measurement (0 ... +/- 300 mbar)
- Battery and grid power operation
- Internal data storage for up to 16000 measurements
- Mini-USB interface for cable data transfer to PC and battery charger connection

NOVA plus BIOGAS

For biogas and engine exhaust gas measurement



- Simultaneous measurement of up to 4 (max. 7) gases
- Biogas measurement: O₂, H₂S, CH₄ and CO₂
- O₂ measurement 0 - 25.00%, using long-life sensor
- Biogas / differential pressure measurement (0 ... +/- 300 mbar)
- Battery and grid power operation
- Internal data storage for up to 16000 measurements
- Mini-USB interface for cable data transfer to PC
- Built in high speed printer
- OPTIONAL electric Peltier cooler

SWG 100 - *BIOGAS*

For biogas measurement



- Accurate measurements, including plug & play pre-calibrated sensors, easily field replaceable
- No dilution of sample gas is required
- Direct and continuous/discontinuous measurement with pressure and temperature compensation
- Multiple sampling point monitoring (up to 10 sites monitoring) with one analyzer
- Standard system safety included with continuously monitored cabinet ventilation fan
- Ready to run delivery, minimum installation work

SWG 100 - *BIOGAS compact*

For biogas measurement



- cost effective stationary biogas analyzer
- accurate measurements, incl. plug&play, pre-calibrated sensors
- safety in use with gas flow restrictor orifice at gas inlet and ventilation
- sampling from low suction up to high pressure gas
- sample gas conditioning for fast and reliable measurements
- no dilution of the sample gas, nor use of compressed air is required
- discontinuous measurement, user settable up to 24 measurements per 24 hours
- up to 2 sites monitoring (time sharing technique) with only 1 analyzer
- IP 54 cabinet for use in harsh environment

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