IM 5000
GAS ANALYSIS SYSTEM

The IM 5000 is a state-of-the-art continuous flue-gas monitoring system, and is designed for a wide variety of flue-gas monitoring applications.

The IM 5000 is a stand-alone analyzer that works automatically. The rugged wall mounted enclosure meets NEMA type 4X (IP65) standards.
The modular approach of the IM 5000 allows one or more gases (up to 8) to be measured simultaneously.
The IM 5000 uses the latest sensor technology from electro-chemical sensors up to NDIR benches.
The system can analyze samples taken from up to 4 different sampling points. This sequential measurement is only possible with the addition of multiple gas sampling and conditioning devices (IM 400).
The IM 5000 offers various outputs such as a serial interface (RS232/RS485), an analog output (volts / current) and an alarm (relay).

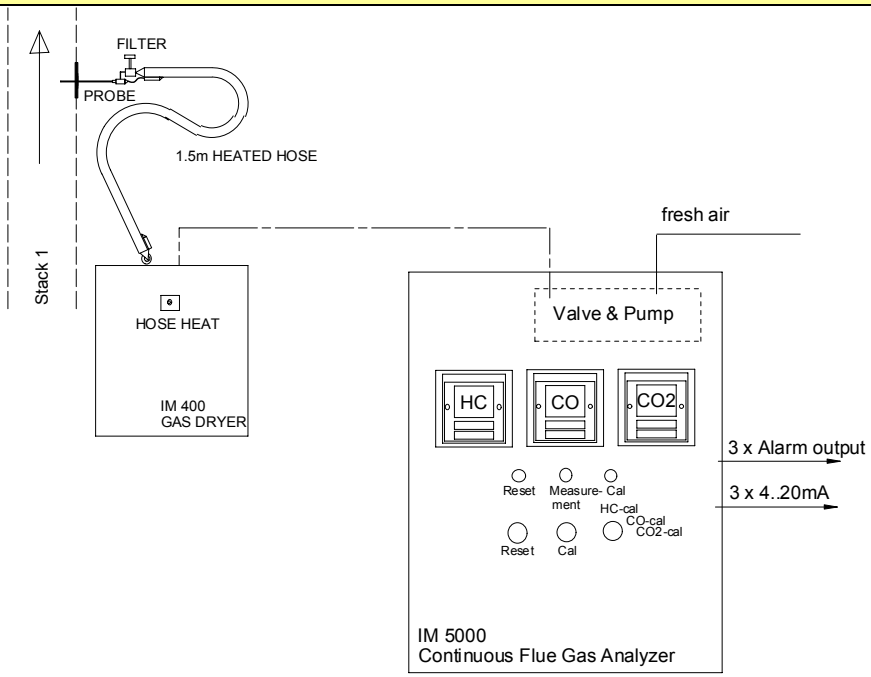
All of the above features allow the IM 5000 to be configured for a variety of applications and can easily be upgraded in the future.

IM 5000 and IM 400

FEATURES

- Up to eight different controllers
- Up to 4 different sampling points
- Analog output (volt/current)
- Alarm output
- RS232/RS485 digital output
- Built to customer specifications
- Rugged and weather-resistant
- Large display
- Easy to use and easy to service
- Latest sensor technology

FUNCTION DIAGRAM: IM 5000 (3-CONTROLLERS HC, CO, CO2) with 2 x IM 400



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IM 5000 – OUTPUT FORMAT

Analog output
Each controller has one individual analog output and each output maybe configured from the display at any time. The outputs are fully scalable across the measurement range.
Format: 0..20mA / 4..20mA / 0-1VDC / 0-10VDC

Alarms (Relay)
Each controller has one individual relay (SPDT). Each relay and its different modes and levels of activation can be configured from the display at any time.

PARAMETER	PRINCIPLE	PART-NO.	RANGE
O2 Oxygen	Electrochemical	50050	0-25% to 0-100%
O3 Ozone	Electrochemical	50075	0-2 to 0-100ppm
CO Carbon monoxide	Electrochemical	50110	0-500ppm to 0-9,999ppm 0-1% to 0-10%
CO Carbon monoxide	NDIR	50100	0-5% to 0-10%
CO2 Carbon dioxdie	NDIR	50150	0-2,000ppm to 0-100%
CH4 Methane	NDIR	50850	0-9,999ppm to 0-30%
HC Hydrocarbons	NDIR	50800	0-9,999ppm to 0-30%
HC Hydrocarbons	Solid state	50810	0-100% LEL
NO Nitric oxide	Electrochemical	50200	0-1,000ppm to 0-5,000ppm
NO2 Nitrogen dioxide	Electrochemical	50500	0-100ppm to 0-500ppm
SO2 Sulfur dioxide	Electrochemical	50400	0-2,000ppm to 0-4,000ppm
H2S Hydrogen sulfide	Electrochemical	50600	0-100ppm to 0-200ppm
HCl Hydrogen chloride	Electrochemical	50900	0-100ppm to 0-200ppm
H2 Hydrgen	Electrochemical	50650	0-1,000ppm to 0-2%
Cl2 Chlorine	Electrochemical	50950	0-20ppm
NH3 Ammonia	Electrochemical	50925	0-50ppm to 0-200ppm
Flue-gas temperature	Thermocouple Type K	50675	0-1,200°C

Any ranges can be specified between the minimum and maximum ranges stated below. In general any eight channels can be fitted to the system. Other sensors, measurement ranges and limitations regarding combinations are available upon request.

IM 5000 - TECHNICAL DATA

Display	1 Display per Controller; 9-Segment, LED 21mm
Relay	250VAC or 30VDC @ 3A
Output	SPDT
Analog output	Non-isolated; proportional 0-10VDC or 0-20mA; 500Ohm max.
Communications	Optional; RS232 or RS485
Power supply	120VAC/60Hz or 240VAC/50Hz
Enclosure	Wall mounted, NEMA4/IP65 Dimensions in mm: Max. 2 Controller: 465 x 350 x 200 Max. 4 Controller: 700 x 500 x 250 Max. 8 Controller: 1400 x 750 x 375
Operating temperature	10°C to 40°C
Storage temperature	-20°C to 50°C
Operating environement	90%RH, non-condensing

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