



CONTINUOUS FLUE-GAS ANALYZING SYSTEM IMR 5000

IMR 5000 P CONTINUOUS FLUE-GAS MONITORING SYSTEM

The IMR 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 IMR 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 IMR 5000 allows one or more gases (up to 8) to be measured simultaneously. The IMR 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 (IMR 400).

The IMR 5000 offers various outputs such as a serial interface (RS232/RS485), an analog output (volt / current) and an alarm (relay).

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

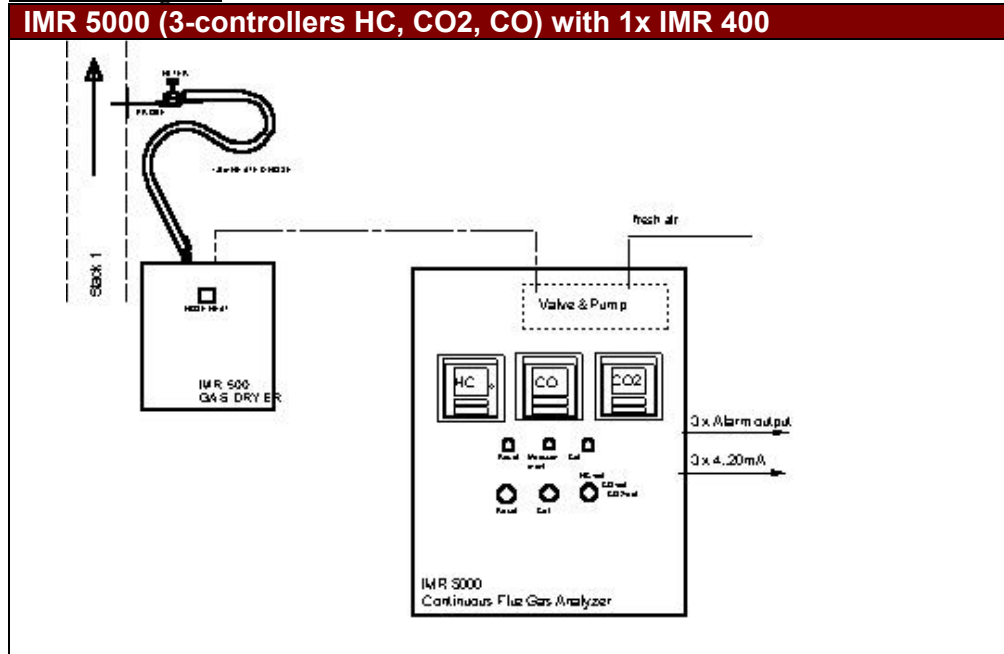


FEATURES	APPLICATIONS
<ul style="list-style-type: none"> ● Up to eight different controllers ● Up to 4 different sampling points ● Analog output (volt/current) ● Alarm output ● RS232/RS485 digital output ● Built to customer specifications ● Rugged and weather-resistant ● Large display ● Easy to use and easy to service ● Latest sensor technology 	<ul style="list-style-type: none"> ● Boiler / Burner ● Turbines ● Engines ● Incinerators ● Process control ● Landfills ● Cogeneration plants

IMR 5000 - APPLICATION EXAMPLE

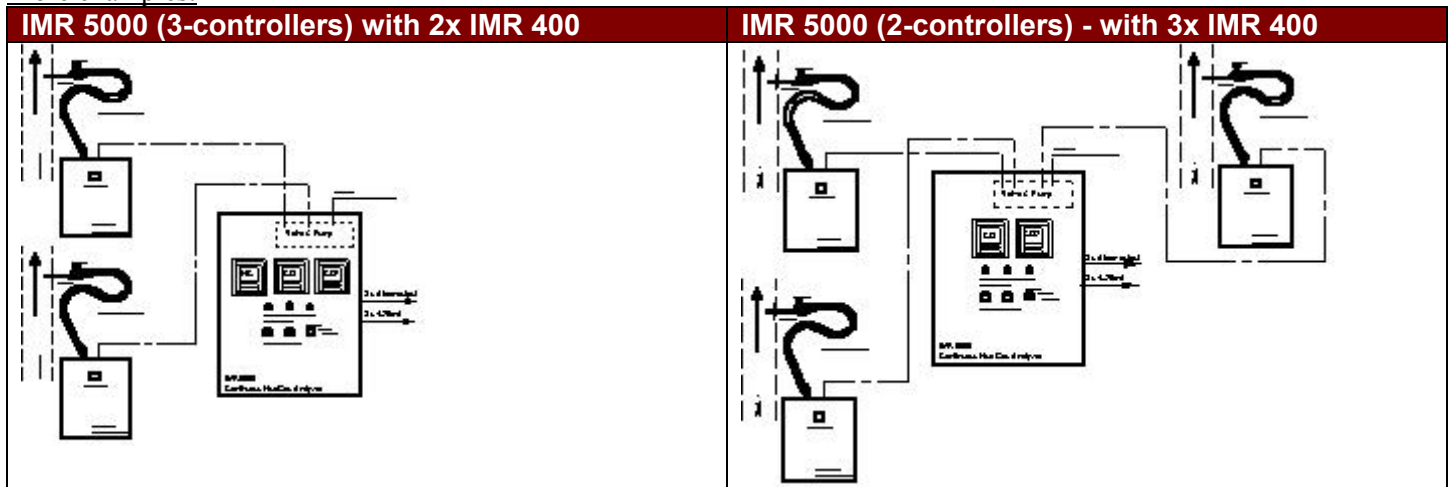
One of our most popular systems is the IMR 5000 in combination with the IMR 400. The IMR 400 is a gas conditioning system that cleans and dries the flue-gas.

Function diagram



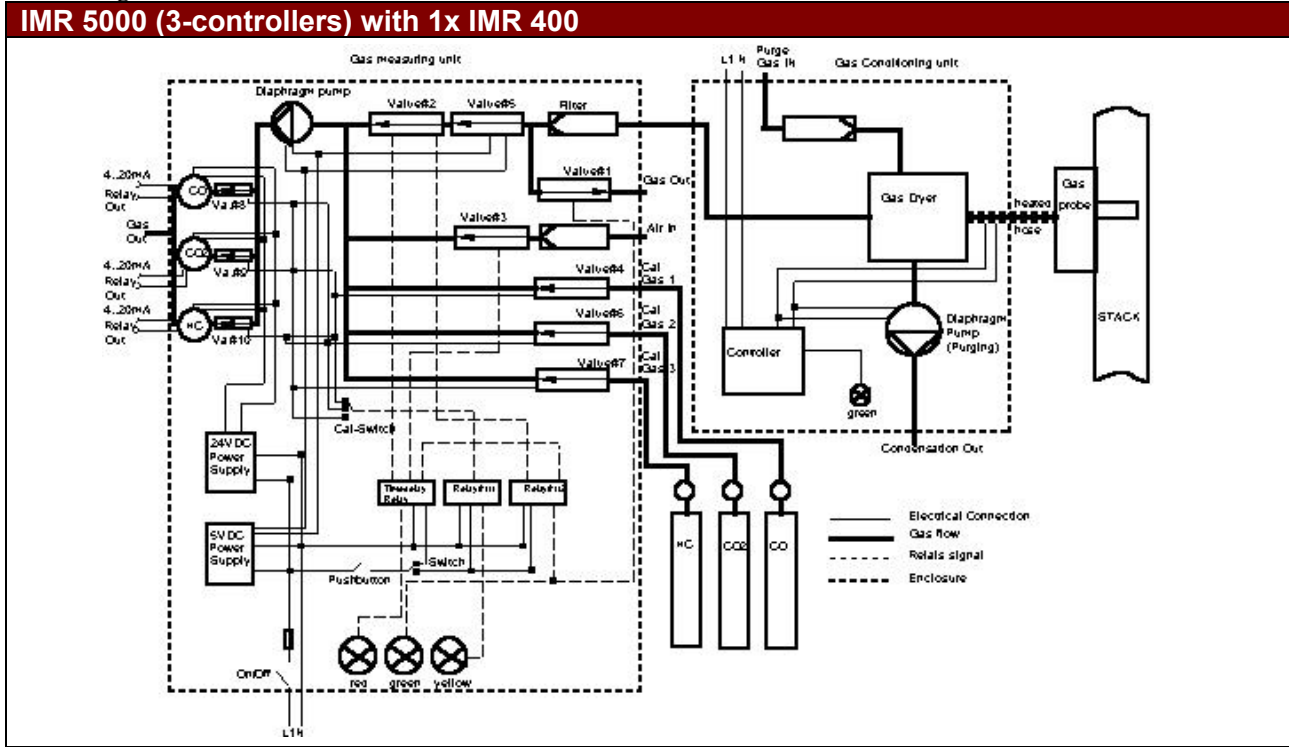
The IMR 400 is equipped with a flange-mounted, gas-sampling probe and a heated hose. Either a 'peltier cooler' or a 'permeation dryer' is used to dry the flue-gas. The conditioned flue-gas is then analyzed by the IMR 5000. Individual sensors (NDIR) are used to analyze HC, CO and CO2. The alarm outputs and analog outputs can be configured individually and are fully scalable across the measurement range.

More examples:



The IMR 5000 is a versatile instrument that can be customized for the customers specific needs. The flue-gas analyzing system can be equipped with up to 8 different controller systems and can measure up to different 4 stacks.

Block diagram



The IMR 5000 is equipped with various solenoids and relays. These components make sure that the unit operates automatically. The calibration of the unit is quite simple. Each controller gets adjusted individually by applying a test gas on the specific calibration fitting.

IMR 5000 - DISPLAY



Green



Amber



Red

Each controller has its own display. The height of the LED is 0.83" (21mm) and the color is programmable at any set point (red, green and amber).

IMR 5000 - OUTPUT FORMATS

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.

Operation: Absolute/deviation, latched/unlatched, normally open/normally closed, above/below, high/low, band



PROCESS CONTROLLERS WITH SENSORS / TRANSMITTERS

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.

Table with 4 columns: PARAMETER, PRINCIPLE, PART-NO., RANGES. Lists various gases and temperatures with their respective measurement principles and part numbers.

IMR 5000 - SPECIFICATION

Table with 2 columns: Parameter (e.g., Display, Modes, Damping) and Specification details for the IMR 5000 controller.

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