

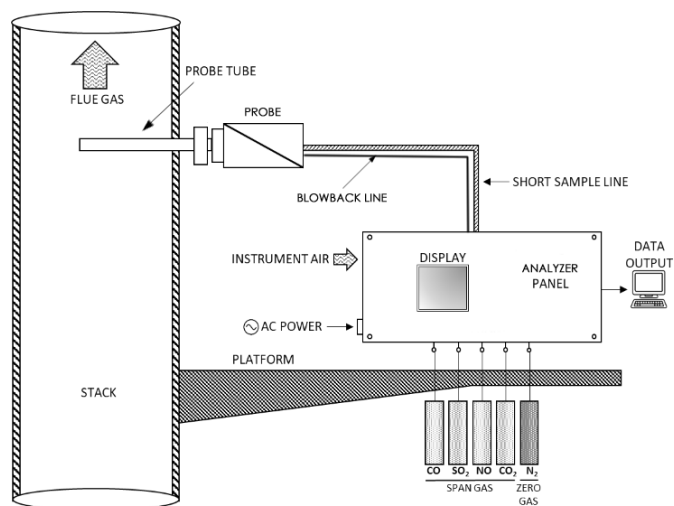
# MEGA EX – Multi-Element Gas Analyzer

## Continuous Emissions (CEMS) and Process Monitor



### Product Description

Low cost and compact multi-element gas analyzer with integrated sample conditioner and probe stinger, mounted on stack or process location for continuous emissions monitoring and reporting. The flue gas sample flows through the probe and a short heated sample line bundle for simultaneous measurement of targeted elements by multi-component analyzer bench with automatic verification against standard span gases.



\*Instrument components are not to scale.  
Please refer to the Product Specifications  
section for analyzer and probe

### Features & Benefits

- ✓ Measures multiple gases simultaneously with NDIR eliminating the need for additional instruments
- ✓ Low cost emissions reporting and process control with quick ROI benefits
- ✓ Compact and lightweight stack mounted or process analyzer with very short sample line eliminates the need for expensive extractive systems
- ✓ Selectable probe lengths for small to large stacks
- ✓ Quick warm up and fast response time suitable for closed loop process control
- ✓ High data availability rate
- ✓ Compliant to US EPA 40 CFR Part 60

### Flue Gases Measured Simultaneously Under NDIR

- ✓ Carbon Monoxide (CO)
- ✓ Carbon Dioxide (CO<sub>2</sub>)
- ✓ Sulfur Dioxide (SO<sub>2</sub>)
- ✓ Nitrogen Oxides (NO<sub>x</sub>)
- ✓ Oxygen (O<sub>2</sub>) (Optical Method)

Please contact us for additional measurable gases.

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Product Specifications				
Analyzer & Sampling System	Weight	150 lbs.	HMI/Display	7.0-inch Touch Screen (IP66) interface for real-time display, settings & controls
	Dimensions	35.5"W x 31"H x 13"D	Resolution	0.5% of full scale
	Accuracy	Less than $\pm 2\%$ of full scale	Repeatability	Less than $\pm 2\%$ of full scale
	Range	0-5 PPM to 0-5,000 PPM (Other ranges available)	Linearity	Less than $\pm 2\%$ of full scale fitted to theoretical curve
	Response Time* T90	30 Secs at 10 feet sample line	Noise	Less than $\pm 1\%$ of full scale
	Ambient Temperature	10° C to 40° C maximum (Other temperature ranges available)	Zero Drift	Less than $\pm 2\%$ of full scale per 24 hours
	Enclosure Rating	Fiber Glass NEMA 4X	Span Drift	Less than $\pm 2\%$ of full scale per 24 hours
	Sample Inlet Temperature	140° C Standard 180° C Optional	Sample Outlet Temperature	4° C (39.2° F) rated
	Sample Inlet Dew Point	80° C (176° F) maximum	Interconnect Cable	3.05m (10 ft.) 12-core shielded PVC insulated cable standard
	Output (1)	4 to 20 mA for each gas	Sample Line Bundle	3.05m (10 ft.) heated & self-regulated at 140° C (284° F) standard (180° C option available)
	Output (2)	MODBUS over TCP/IP Ethernet		
Probe	Size	395.55 x 364.15 x 178 mm (15.57 x 14.33 x 7 in)	Probe Length	2m (6 ft.) standard and application dependent
	Weight	14.5 kg (31.97 lbs.)	Stack Temperature Gas	300° C (572° F) standard (Higher temperature versions available)
	Dust Loading	Up to 1 g/m <sup>3</sup> standard (Higher dust loading versions available)	Stack Gas Pressure	200 KPa Abs
	Approvals	CE	Stack Gas Flow	10,000 m <sup>3</sup> /min (353,147 CFM) standard (Other versions available)
	Ambient Temperature	-30° to 60° C (-22° to 140° F) (Other temperature ranges available)	Probe Filter Element	Pore size 2 um 40/20 x 135 mm (5.32 in) SiC material standard
Services	Power	2,000 Watts	Air Consumption	30 SCFM (Intermittent)
	AC Voltage	110/230 V AC 60/50 Hz	Instrument air Dew Point	-40° C (-40° F)
	Instrument Air Pressure	80 PSI(g), 5.62 kg/cm <sup>2</sup> , 5.51 bar *Clean, Dry, Oil-Free Instrument Grade Air Required	Stack Flange	DN65/PN6 acc. EN 1092-1 Form A (Other sizes available)
DAHS	Data Acquisition and Handling outputs: Date & Time Stamped Average Concentration Data, Daily Calibration Data, Down Time Data & Exceedance Data Available from MODBUS Protocol			

Please fill out the Application Questionnaire to determine the specific customizations required for your application. Specifications are subject to change without notice. Contact us for the most accurate information.



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