

## CEMS ANALYZERS

ANALYZERS FOR UPGRADES AND REPLACEMENTS



Monitoring Solutions is proud to offer a complete line of CEMS analyzers for upgrades and replacements. For both dilution and extraction systems, we offer analyzers for the most common CEMS gases including: NO<sub>x</sub>, SO<sub>2</sub>, CO, CO<sub>2</sub>, O<sub>2</sub>, THC, NH<sub>3</sub>, and more.

Let Monitoring Solutions help you upgrade your CEMS. We can help pick the best analyzer for your specific application. We offer analyzers from the following manufacturers:



Other analyzers are available upon request (different gases and different manufacturers)

### The Monitoring Solutions Advantage:

Why buy from us? You won't pay any more buying an analyzer from us versus the manufacturer, and you'll get a whole lot more:

- Engineering assistance to make sure you get the right analyzer for the right application
- Assistance with installation, start-up, and training
- A 24/7 Phone Support Contract for the first year at no cost to assist you as you get familiar with your new analyzer
- Complete after-sales support including both in-house and on-site repairs. Parts and consumables sales - stocked in our Indianapolis facility for quick turn-around.

#### APPLICATIONS

- > Extraction CEMS
- > Dilution CEMS
- > Process CEMS
- > Other Process Applications

#### FEATURES

- > Different Technologies for Different Gases: NO<sub>x</sub>, SO<sub>2</sub>, CO, CO<sub>2</sub>, O<sub>2</sub>, THC, NH<sub>3</sub>, and more
- > Chemiluminescence
- > Pulsed Fluorescence
- > NDIR
- > FTIR
- > FID
- > Zirconium Oxide

#### MONITORING SOLUTIONS

Complete source for all your Continuous Emissions Monitoring (CEMS) needs:

Philadelphia

Toll Free: 908-500-4010

Fax: 908-847-0411

Indianapolis

4404 Guion Road

Indianapolis, IN 46254

Phone: 317-856-9400

Fax: 317-856-9410

New Jersey

78 Route 173, Suite 7

Hampton, NJ 08827

Phone: 908-713-0172

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[www.monsol.com](http://www.monsol.com)

## CEMS ANALYZERS

ANALYZERS FOR UPGRADES AND REPLACEMENTS

Models	Gases	Technology
<b>Brand-Gaus</b>		
4705	O <sub>2</sub>	Zirconium Oxide
7705/7700	NO <sub>x</sub> – O <sub>2</sub>	Chemiluminescence & Zirconium Oxide
<b>California Analytical Instruments</b>		
600 (601, 602)	CO – CO <sub>2</sub> – CH <sub>4</sub> – SO <sub>2</sub> – O <sub>2</sub>	NDIR
600D	CO <sub>2</sub>	NDIR
600HFID	THC	FID
600MFID	THC, Methane/Non-methane	FID
650 NOxygen	NO <sub>x</sub> – NO – NO <sub>2</sub> – O <sub>2</sub>	Chemiluminescence & Paramagnetic
700CLD	NO <sub>x</sub> – NO – NO <sub>2</sub>	Chemiluminescence
700 FTIR	CO <sub>2</sub> – CO – NO – NO <sub>2</sub> – SO <sub>2</sub> – N <sub>2</sub> O – HCl – NH <sub>3</sub> – CH <sub>4</sub>	FTIR
ZPA	CO – CO <sub>2</sub> – CH <sub>4</sub> – SO <sub>2</sub> – NO – O <sub>2</sub>	NDIR, fuel cell (for O <sub>2</sub> )
<b>Servomex</b>		
Servopro 1440	O <sub>2</sub>	Paramagnetic
<b>Thermo Scientific</b>		
42iQ/42iQHL/42iQLS	NO <sub>x</sub> – NO – NO <sub>2</sub>	Chemiluminescence
43iQ	SO <sub>2</sub>	Pulsed Fluorescence
48iQ	CO	Gas filter correlation
51i	THC	FID
60i	CO <sub>2</sub> – O <sub>2</sub> – SO <sub>2</sub> – NO <sub>x</sub> – NO – NO <sub>2</sub>	NDIR
410i	CO <sub>2</sub>	NDIR

### Abbreviation Key

CO – Carbon Monoxide	CO <sub>2</sub> – Carbon Dioxide	CH <sub>4</sub> - Methane
FID – Flame Ionization Detection	FTIR - Fourier-transform infrared spectroscopy	HCl – Hydrogen Chloride
NDIR – Non-Dispersive Infrared	NH <sub>3</sub> - Ammonia	NO – Nitric Oxide
N <sub>2</sub> O – Nitrous Oxide	NO <sub>2</sub> – Nitrogen Dioxide	NO <sub>x</sub> – Oxides of Nitrogen
O <sub>2</sub> - Oxygen	SO <sub>2</sub> – Sulphur Dioxide	THC – Total Hydrocarbons

### CONTACT

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