

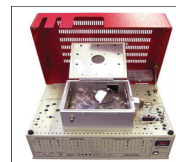

**GHG Analyzer®**

# GHG Analyzer® Carbon Footprint Reporting

**Make a smart Choice – When it comes to Carbon Accounting go GHG Analyzer®**

## APPLICATIONS :

- Coal and Other Fossil Fuel Power Stations
- Cement & Lime Kilns and Generation Facilities
- Bio-Mass Fueled Power Plants
- Steel Mills & Metal Industries
- Cogeneration Facilities
- Paper & Pulp Industries
- Gas Fired Turbines and Boilers
- Chemical & Pharmaceutical Industries
- Refuse and Waste Incinerators
- **Cross Check Carbon footprint calculations**
- Refineries and Oil Processing Plants



## FEATURES :

- Quality and consistency of measurements in demanding sample matrix environments at the maximum achievable monitoring limits
- Reliable low maintenance equipment, to validate emission factor calculations resulting from process leaks and other uncertainties, by transportable, portable, drone-based or installed analyzers
- Professional Analyzer support beginning from application design and lasting throughout the entire lifecycle of your equipment
- A spectrum of products capable of optimizing and balancing your technological, compliance and budgetary concerns



## PRODUCT DESCRIPTION:

The Indusmation GHG Analyzer® Series offers a comprehensive, efficient and well-engineered package of Carbon Footprint Monitoring Solutions. Coupled with our Freedom Services Package® it allows you to relax with confidence, while entrusting your ESG challenges in our competent hands.

The Greenhouse Gas GC is designed for the detection of carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>) and nitrous oxide (N<sub>2</sub>O). Depending upon the volume of the sample loop on the gas sampling valve, it can detect trace levels or high concentrations. It may be used for stack or ambient air monitoring, or in a plane for atmospheric air analysis. The chromatogram below was generated by a Greenhouse Gas GC with a 5mL sample loop.

Wide range of FLIR based gas imaging for VOCs and other GHGs for various industry applications coupled with Sniffer quantification as per EPA Appx K guidelines.

The Greenhouse GC is not limited to CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O. The FID-Methanizer detects hydrocarbons as well as CO and CO<sub>2</sub> (as methane). The sensitive ECD detector responds to electronegative compounds, especially chlorinated, fluorinated, or brominated molecules like PCBs and pesticides. With a low-volume sample loop, the Greenhouse GC can be used to measure gases produced by bacterial metabolic processes and life cycles. Trace Gas Analyzers use Optical Feedback-Cavity Enhanced Absorption Spectroscopy (OF-CEAS) for ambient level trace GHG measurements.

### Sampling Modules:

Full Extractive - Hot Wet  
Full Extractive - Cold Dry  
Dilution Extractive  
In-Situ Cross Stack  
In-Situ Probe

OGI Optical Gas Imaging  
Sniffer Quantification  
OGI Certification

### Analyzer Modules:

Non-Dispersive Infrared (NDIR) Ultraviolet (UV) Chemiluminescent (CLD) Heated Total Hydrocarbon (THC), TCD by GC Paramagnetic Cold Vapour Atomic Absorption Spectroscopy (CVAAS)

### CEMS components and accessories:

Control Systems and Software  
DAHS and AB  
LaserSOFT®  
Calibration Systems  
Shelters and Enclosures  
Parts & Accessories

### Types of Gases & Parameters Monitored:

GHG, Hg(0), Hg(2)  
H<sub>2</sub>, HCL, HF, H<sub>2</sub>S, THC, CO, CO<sub>2</sub> CH<sub>4</sub>, O<sub>2</sub>  
NO, NO<sub>2</sub>, NO<sub>x</sub>, NH<sub>3</sub>, SO, SO<sub>2</sub>, SO<sub>3</sub>, SO<sub>x</sub>  
Opacity, Dust, PM  
Acid Dew Point  
Flow, Temperature &  
Custom Applications

**Freedom Services®**

## Indusmation Freedom Services® Package

- Professional Engineering resulting in Proprietary Monitoring Solutions with Proven Performance and Minimal Support Requirements
- Extensive Engineering Experience, providing Environmental Technology Solutions to Fortune 500 Industries and Companies
- Individualized Custom Design, addressing Monitoring and Reporting Requirements & Challenges in Specific Industrial Environments
- Reduced Acquisition and Ownership Cost as a result of Optimization and Innovation
- Uncompromised Durability, Quality and Reliability of Measurements
- Highly skilled Analyzer Professionals performing Fast, Responsive Installation, Maintenance and Emergency Services and Certification Support
- On-site and Factory Training for your Operations, Service and Maintenance Personnel
- A Comprehensive Inventory of Spare Parts and Accessories to support our Equipment
- Personalized Phone and E-mail Support, 24 hour Emergency Line
- A Network of Representatives covering most of the United States Territory and offering Local Sales and Service Support. International Representatives in Canada, Mexico, The Middle East, India and China



### Applications Engineering

Our expert engineers use decades of industry experience to provide the perfect solution for each customer. We understand that each application is unique and take a customized personal approach to designing the right Analyzer for the application. With this in mind, all the systems we provide are extremely durable and engineered to last.

### Turnkey Analyzer systems Integration

We provide turnkey Continuous Emissions Monitoring Systems solutions. With every Analyzer we engineer, We will also offer installation, start-up support, on-site training, and initial calibration. In addition we provide complete project management to keep you up to speed throughout the entire start up process. With this kind of support we ensure that with the purchase of any Analyzer you will be up and running in no time.

### System Installation and Start-up

We believe in providing its customers complete solutions with all our products. This means that we will have your system working effectively with full installation and start up services.

### Preventive Maintenance

We provide maintenance programs that work for our customers on a monthly, quarterly, semi-annual, or annual basis. Our nationwide team of service technicians is always available at your convenience, should you need an emergency site visit. Our service technicians are trained and certified in accordance with applicable industry safety requirements (OSHA), EPA reporting and certification, and have experience with analyzers and Analyzer systems, whether its our own models, or third-party equipment.



### Analyzer Training

Our knowledgeable engineers will provide your staff with comprehensive on-site training to make them experts in the operation and routine maintenance of your system. Whether it's a calibration or creating a compliance report, after our extensive training sessions your staff will have no problem keeping your monitoring system working effectively on a daily basis.

### Emergency "Rapid Response" Support

With the Freedom Services® Program, we provide immediate and efficient service and support to help solve whatever dilemma your Analyzer may be experiencing. We have 24/7 technical support, a large inventory of spare parts, and most importantly on-hand service technicians ready to assist at a moment's notice should you require an on-site visit.

### Quarterly & RATA Certifications

Every engineered system is designed to meet your compliance needs. Throughout the design and installation process we will ensure that your system meets EPA compliance regulations such as 40CFR60, 40CFR75, among others. we have been providing compliance reporting for decades and is a recognized leader in the industry. Speak to our representatives today to find out why.