



Ei2100 Monitoring System

Biogas and RNG

The Ei2100 Biogas Monitoring System provides cost-effective online monitoring of compliance with Renewable Natural Gas (RNG) interconnection specifications, and feedback to Anaerobic Digester & Upgrading Process Control Systems.

Designed with flexibility in mind, the system is modular and capable of utilizing assortment of proven measurement principles and sampling techniques to ensure optimal system configuration. The integrated IntelliSense™ control and data acquisition software complete the turnkey solution and provide a simple and intuitive user interface.

Applications

- Biogas
- Dairy, Hog and Pig Farms
- Gaseous Fuels
- Landfills
- Natural Gas
- Wastewater Treatment Plants
- Food Waste Digesters (co-digestion)
- Others

24/7 Monitoring

- Base Measurements
 - Methane (CH₄)
 - Hydrogen Sulfide (H₂S)
 - Carbon Dioxide (CO₂)
 - Carbon Monoxide (CO)
 - Oxygen (O₂)
- Additional Measurements
 - Total Sulfur
 - BTEX
 - Moisture (H₂O)
- Siloxanes
- Hydrogen (H₂)
- Nitrogen (N₂)
- Hydrocarbons (C3+, C6+, or C9+)
- Heating Value & Relative Density



EPA RFS Compliant





High Performance and Cost Effective Solution

State-of-the-art technologies selected for optimal measurement of each gas and concentration range, including:

- Gas Chromatograph (GC)
- Gas Chromatograph Ion Mobility Spectrometer (GC-IMS)

Designed for superior performance, and to be user-friendly and unattended:

- Fast response and extremely accurate (less than 2% FS)
- Easy to operate
 - No analytical specialist needed
 - Automatic calibration (Zero and Span)
 - Automatic correction for interferences
- Multiple communication options
 - Analog (4 to 20 mA) and Digital (MODBUS)
 - LAN or Remote access



Rugged IP65 (NEMA 4X Equivalent) Type Enclosures:

- Exterior exposure
 - Temperature controlled
 - Small footprint (36" x 30" x 12")
 - No building required
- Suitable for hazardous rated locations

Sampling System Includes:

- Probe
- Pressure reduction module
- Heated sample line
- Ships as fully assembled complete system
- Installation and training

