Safety Monitoring Advanced Gas, Flame, and Particle Detection Solutions







Net Safety Monitoring is now part of the Emerson Process Management Analytical Group of companies. Recognized as an industry leader in the manufacture of fixed point safety instrumentation, Net Safety joins the most comprehensive set of analytical solutions in the industry. All around the world, thousands of customers count on Emerson Process Management for solutions to optimize their performance, productivity, and profitability.

For nearly two decades Net Safety has built a reputation for developing premium quality flame detectors, fixed toxic and combustible gas detectors, and specialized safety products that offer unmatched protection and performance – with unique features that make them the preferred choice among operators and engineers alike. Emerson's selection of Net Safety as its flame and gas detection platform is a testament to this fact.













Only Emerson offers this range of detection technologies that deliver improved coverage, essential performance, and reduced cost of ownership. No matter how difficult the conditions, your plant and personnel can operate with the confidence that Emerson safety monitoring solutions will provide the protection they need.

Primary Applications

- Oil and Gas Production
- LPG/LNG Facilities
- HVAC Systems
- Turbines
- Wells and Remote Wells
- Pipelines

- Compressor and Pumps
- Refineries
- Processing Plants
- Storage Farms
- Loading Stations
- Offshore Oil Rigs

- FPSO Vessels
- Aviation
- Chemical
- Food and Beverage
- Military
- Mining and Minerals

- Petrochemical
- Power Generation
- Pulp and Paper
- Semiconductor
- Steel Production
- Water and Wastewater

Millennium II Series – Fixed Gas Detection

The Millennium II Series of gas detectors have been engineered from the ground-up to include the innovative features that engineers and operators in the field demand, while providing rock solid day-to-day operation in even the most challenging applications. The Millennium II pushes the boundaries of what you can expect from your detectors.

Single, Dual-Channel, or BASIC Transmitter Configurations

Extremely Low Power Consumption Increases Uptime, and Lowers Overall Costs

Wide Voltage Range Allows For Greater Stability and System Compatibility

Universal Toxic and LEL Gas Sensors Are Completely Interchangeable with Transmitter

Highly Robust Construction and Reliable Performance Designed for Extreme Conditions

Advanced, Catalytic Bead, Electrochemical, and Infrared Sensor Technologies Superior OLED Display Functions Down to -55 °C and Up To +85 °C

Simple To Use Intuitive Menus and Controls With Field Selectable Ranges and Multiple Languages

Fast Digital Communications Between Sensor and Transmitter, 2000 ft (600 m) Separation!

Analog, Relay, RS485 Modbus®, and HART® Outputs Available with WirelessHART® Communications

Full Event Data Logging of Over 980 Sequential Events

Wide Range of Accessories Including Duct Mounts and Environmental Protection



M21 Single Channel



M2B Single Channel



M22 Dual Channel



GDU-Incus – Ultrasonic Gas Leak Detection

The GDU-Incus is an advanced next generation gas leak detection system. Providing instantaneous detection of deadly gas leaks without requiring any gas concentration, the GDU-Incus is not affected by inclement weather, wind direction, leak direction, gas dilution or attenuating effects.

Wide Area Coverage, 40 Meter Three Dimensional Radius

-40 °C-+85 °C Operating Temperature Range

Never Requires Calibration

Piezo-electric Sensors Never Expire

Monitors For Both Toxic and Combustible Gas Leaks

Continuous Self-test Functionality
Ensures Instrument Health



GDU-Incus Ultrasonic Gas Leak Detector

UV/IRS Flame Detector

Two spectrums of radiation must be recognized and confirmed by precisely tuned sensors for the UV/IR to initiate a fire condition, greatly reducing false alarms while providing critical safety performance to your site and personnel.





UVS Flame Detector

Reacting to a single spectrum of ultraviolet radiation found in flame, the UV delivers the fastest response and widest field of view available. The UV does not react when exposed to incandescent or fluorescent lighting, heaters or sunlight.



*Hydrocarbon and Hydrogen based flame detection

Oil Mist Detector (APM)

The Millennium Series Oil Mist
Detector (Airborne Particle Monitor
- APM) is an explosion-proof,
infrared detector designed to
monitor ambient air for particulate
matter such as smoke, oil mist,
carbon, dust or ash. This unique
product is suitable for hazardous
locations with a Class I.



Division 1 certification. Some of the APM's proven installed applications include duct monitoring, battery rooms, engine rooms, compressor stations, high pressure hydraulic line monitoring, and turbine enclosures to name just a few.

SafeGuard Controller

The SafeGuard is a multi-channel Modbus® master display with alarm monitoring and control. It is widely used for centralizing the display and alarm processing functions in critical flame and gas detection applications. The SafeGuard comes standard with an intutively designed LCD



providing simultaneous status on all channel inputs plus several expansion options including Mimic Display capabilities and HMI packages. The SafeGuard is versatile, expandable, and offers a wide range of system configuration options allowing it to seamlessly integrate.

Net Safety's world-class research and development team has a passion for product innovation. As an Emerson Process Management company, we are taking our capabilities and products to the next level. We are excited to bring our customers the next generation of process safety solutions, including PlantWeb and wirelessHART.













At Net Safety Monitoring, we continue to treat quality with a level of importance beyond a traditional manufacturer. We know our instruments provide critical protection to thousands of operators and facilities every day, and must sustain continuous and reliable protection for years to come. We achieve this high level of quality through a company-wide dedication to the ISO 9001:2008 international series of manufacturing standards for quality management and assurance, and by employing the strictest testing protocols for every instrument that leaves our factory.

Alaska to Australia, Santos Basin to Siberia — wherever you are operating around the globe — Net Safety Monitoring is there. By leveraging the Emerson Process Management Analytical Group's global network, Net Safety Monitoring is now positioned to deliver unparalleled international sales and service. And we continue to back all our solutions worldwide with market leading warranties and dedicated product support.



Protecting Life, Property and Productivity.









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