EMT GasSafe Gas Leak Detection System

emt
Insulating Gas Analysis & Handling

Early warning in the event of gas leaks or an unsafe working environment, ensuring personnel safety and asset protection.

The EMT GasSafe Fixed Leak Detection system offers a comprehensive and feature packed solution to monitoring real time gas leaks from electrical equipment or potential other unsafe gaseous emissions.

With a selection of control panels to fit needs and budget, coupled with sensors for over 400 gases and vapours, the GasSafe system provides peace of mind to personnel and asset managers that operations are conducted safely and issues are identified early.

Utilising a ground breaking intelligent addressable system with smart sensor technology, significant costs savings and efficiencies are gained during the installation, ongoing maintenance, calibration and upgrades of the system.

Industry leading sensor technology, as utilised in our purity analysers, provide the solution to F-Gas requirements for leak detection; reducing operator requirements of a regular leak detection routine.

Features

- **Application Specific:** Ideal for traditional SF6 and new SF6 alternative gas installations.
- **Comprehensive Measurement Capability:** Measurement of over 400 different gases & vapours from ppm to %Vol.
- **Flexibility:** Easily add or remove sensors and accessories as your system needs grow with up to 128 detectors on a single control panel.
- **Easy & Cost Effective Installation:** 2 core cable used for power and comms reduces connections and is faster to install.
- **Simple Servicing & Maintenance:** Onsite service & calibration solutions are provided by EMT; or utilise our "CBP" programme hot swappable sensor option, reducing downtime and engineer deployment.
- **Superior Integration & Communication Capabilities:** A variety of integration technologies allows the system to communicate with site management systems or utilise the cloud for remote control.
- **F-Gas Compliance:** Provides an intelligent and comprehensive solution to your F-Gas leak detection requirements.

For more information or a demonstration contact
sales@emt.global or visit **www.emt.global**

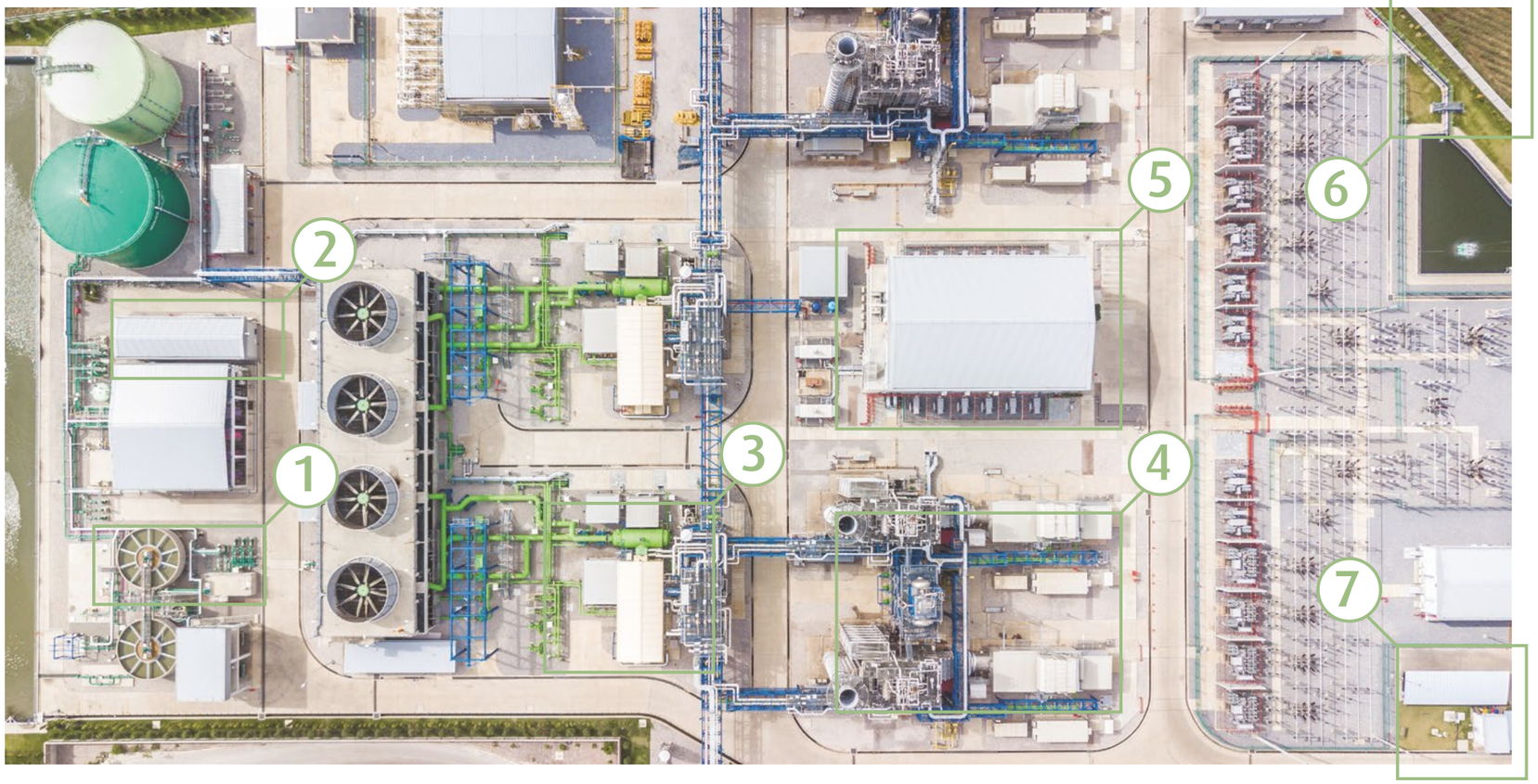
Applications and Features

1

Gas Cylinder Storage

Leaking gas from cylinders and associated regulators or fittings presents a risk to personnel.

Installing a fixed leak detection system in these areas will pre-warn personnel of any dangers before they enter the area.



7

Site Monitoring & Response

The EMT GasSafe fixed system allows for measurement readings and alarm statuses to be transferred to other locations on site such as security building. This ensures alerts and alarms are never missed and where needed emergency services are contacted immediately.

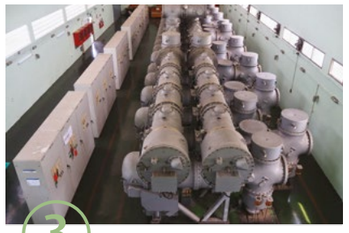
2

Indoor Gas Leaks

Leaking gas insulated electrical assets such as GIS and GIL present both an operational issue and a potential safety issue.

Environmental legislation in many countries require detection of SF6 gas leaks in order to alert utilities to enact repairs.

Leaking SF6 and breakdown by-products such as HF are toxic and so present a risk to personnel. Early warning alerts to potentially hazardous areas ensures operators are not exposed.



3

Indoor Eco/SF6 Alternative Gas Leaks

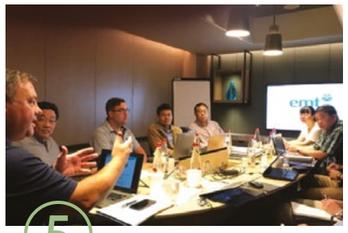
Whilst not posing as greater environmental hazard compared to SF6, new alternative insulating gases and the associated by-products are toxic and so pose a risk to personnel.

Leaking gases such as CO2, CO or HF are detectable using a fixed leak detection system and alarms generated, providing an early warning alert to potentially hazardous situations.

4

Non-Process Operations

Other non-site process areas such as common rooms or kitchens can also have gas safety risks. Leaking carbon monoxide from a poorly serviced gas boiler, or flammable gases from heaters or cooking areas.



5

Indoor Air Quality & Infection Transmission

Indoor air quality levels play a crucial role in supporting our health and well-being at work. Measurement of CO2 levels in buildings provides a good indication of ventilation efficiency.

Good levels of ventilation helps keep employees alert and productive whilst reducing transmission risk of diseases such as COVID-19.

6

Remote Installation Monitoring

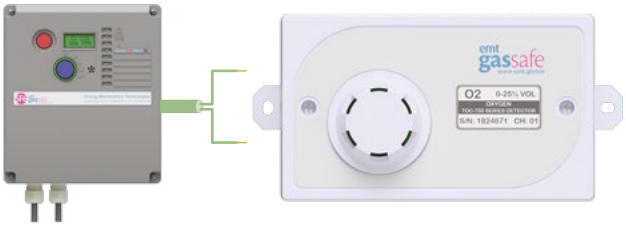
Most utilities have un-manned assets in remote locations or within sensitive locations such as residential areas.

The GasSafe fixed system can be deployed into these remote locations and transmit gas and other parameter (weather, security) readings back to a central monitoring centre.

Using GSM (3G/4G/5G) technology with cloud data collection and reporting, managers can see real time statuses of assets and any alerts. This instant access allows them to manage situations as they arise rather than after the event has occurred.

Control Panels

The EMT GasSafe fixed system has the option of two control panels, the Standard and the Pro. For smaller installations with up to 32 sensors the standard panel has all the features of the Pro but at a lower cost point.

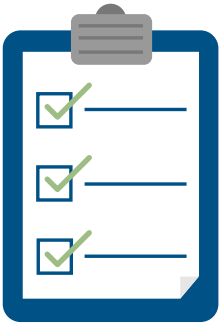


Simple Installation

The EMT GasSafe system installed with one single 2-core cable with no required terminal polarity and connects all system devices.

Auto Find, Auto Configure and Auto Update process combined with the ability to download diagnostic and setup reports from the panel gives peace of mind the system is operating correctly and protecting your personnel and assets.

Calibration By Post (CBP) Program



The EMT GasSafe range of intelligent sensors are hot swappable in the field with the control panels updating as new sensors are installed.

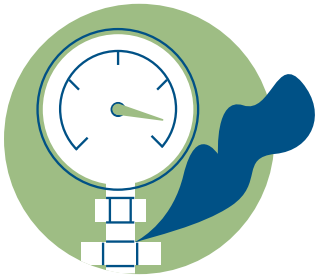
The EMT CBP Program ensures minimum downtime associated with sensor failures or calibration requirements.

Signing up to the CBP program ensures that fresh calibrated sensors arrive to your facility prior to the calibration dates of your installed sensors. A quick and easy swap over of sensor ensures your system remains in calibration and the old sensors are shipped back to EMT.

Intelligent Sensors

The EMT GasSafe range of intelligent sensors provide detection for over 400 gases and vapours. Simple 2 core cable installation for power and comms with integrated I/O capability ensures the sensors are easy to install and flexible for any future demands.

Electricity T&D Specific Sensors



The EMT GasSafe intelligent sensors are available for 00's of gases, but for the Electricity T&D industry we have specific sensors:

Sensors for SF6 Installations:
SF6, SO2, HF, H2S, CO

Sensors for Eco/Alternative Gas/ Dry air Installations: CO2, CO, O2

Data, Trending and Asset Health Analysis

The EMT GasSafe system has the option of on-board datalogging, data export via modbus type comms or via GSM comms to the cloud.

By collating and analysing the gas measurements trends, an insight can be made into KPIs such as leak size, number of sites with leaks, typical asset health or other measurement parameters which can be built into the reporting package.

This gives asset and portfolio managers a better insight into what's happening on individual sites or across your whole geographic asset base.

For details of your local EMT distributor, for further information on our products or to request a demonstration please contact us:

Email: sales@emt.global
www.emt.global

UK Head Office
Unit 7 Marston Business Park
Lower Hazeldines
Marston Moretaine
Bedfordshire
MK43 0XT
United Kingdom

US Operations
Office 863
Suite 800
111 N. Orange Ave
Orlando
FL 32801

bsi ISO 9001 Quality Management Systems CERTIFIED

MKT16-Rev0424b