

Stand Overview

DRAEGER AT FIREX SOUTH - Stand D8

Highlighting the need for reliable fire and gas detection in industrial as well as offshore fire prevention applications, the Draeger stand is focusing on the latest CCTV flame detectors and fixed gas detection systems using leading-edge infrared (IR) technology.

Immune to poisons such as H₂S, IR technology is both robust and stable. The increased accuracy of IR is also able to reduce maintenance and calibration intervals. Now, instead of the need for six-monthly or, in many cases, the more frequent calibration intervals required by catalytic devices, IR systems such as the Draeger PIR3000 can extend calibration intervals to one year. Visitors to the stand can find out how, together with an overall sensor life expectancy of more than 15 years, IR technology can dramatically reduce lifetime ownership costs.

Flame Detection

Representing a significant development in flame detector technology, the Draeger Flame 5000 is certified as SIL* 2 capable and is suitable for use as part of a functional safety system. Reliable and rugged in design, this colour imaging based CCTV flame detector is also explosion-proof. Designed as a stand-alone system and housed within a single unit, it combines colour imaging with digital signal processing and software algorithms to process live video images and interpret the characteristics of a flame.

Unlike traditional radiation, or combined radiation and CCTV flame detectors, the state-of-the-art Flame 5000 uses the camera to detect the flame and, as a result, can eliminate false alarms. Also offering improved detection capabilities, it can be used to provide live video images, or can be fully

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integrated with a control system or fire panel to provide fault and fire signalling using normal 0-20mA or relay outputs. As well as the surveillance benefits, this obviously removes the need to despatch operators to investigate alarms, and reduces the risk of injury whilst improving response time to around 4 seconds.

Simple to install with a stainless steel mounting bracket that can be rotated to ensure optimum positioning, the Draeger Flame 5000 can detect fires of 0.1m² or more, at 44m within a 90° horizontal field of view. An advanced optical verification facility automatically checks the window for contamination and ensures that this field of view is not compromised by obstructions placed immediately in front of the detector.

Open Path IR Gas Detection

The use of open path IR technology, where a multiple beam of infra red is transmitted over a distance of up to 200m to a separate receiver, can have significant advantages. Where large areas need to be covered in perimeter monitoring, for instance, it can significantly reduce cabling costs.

Designed to provide failsafe detection of a wide range of hydrocarbons, the Draeger Polytron Pulsar Open Path IR Gas Detector is able to detect hydrocarbon leaks within a line of sight of up to 200m. Carrying a Safety Integrity Level rating of 2 (SIL 2) and offering a response time of less than two seconds, this robust unit can be both aligned and commissioned without the need for special training. Immune to the effects of the sun, flare radiation and common contaminants, it also benefits from built-in directional guidance for ease of alignment, and heated optics to eliminate snow and icing.

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Explosion proof and ideal for the detection of the alkane series, from methane to hexane, as well as propylene, methanol, ethanol and ethylene, the Polytron Pulsar is easy to use and can be commissioned by just one person. The

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integral calibration requires no manual adjustment or standard test gas and the alignment and signal strength parameters can be logged and used to determine optimum operating conditions.

Infra Red Point Detectors

Point detectors can be installed in critical locations that are prone to possible leakage such as flanges, pumps and compressors throughout the plant. They can also be positioned along the external boundaries.

Ensuring the reliable detection of combustible gases and vapours, the Draeger PIR 3000 is a smart, explosion proof, infra-red gas transmitter. Utilising the latest DraegerSensor IR technology, it offers an excellent price-performance ratio, is immune to poison and provides failsafe operation in any potentially explosive environment. With a long expected lifetime of over 15 years and offering reduced maintenance costs, this flexible transmitter is designed to detect hydrocarbons and many organic flammable gases and vapours. Set up is simplified by the use of an internal gas library..

Incorporating a universal 4 to 20 mA interface, the PIR 3000 can be connected to any 4 to 20mA control system, such as the Draeger REGARD, and features an unmistakable 1mA fault signal. An integral splashguard ensures weather protection to IP 67 and the unit is also ATEX, UL and CSA approved.

Easy, Cost Effective Upgrade to IR

Upgrading to infra-red technology has never been easier, or more cost effective, than with the new explosion-proof DraegerSensor IR. Designed to detect flammable gases and vapours, the ATEX approved DraegerSensor IR has been specifically developed to allow existing pellistors or catalytic bead sensors to be replaced easily, without creating technical problems.

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Even in the harshest of conditions, these new poison Immune, fail-safe sensors are simple to install, simply unscrew the traditional pellistor and screw in the innovative DraegerSensor IR. The inclusion of a Wheatstone Bridge, which is able to duplicate a standard pellistor output, also means that existing cables and control devices, from the majority of manufacturers, can still be used.

Requiring no adaptation to either the control system or the electrical wiring, the DraegerSensor IR features 3-wire connection which eliminates the need for extra cabling. In addition, because of the availability of metric M25 as well as ¾ NPT thread with the new sensor, it can even be used with existing junction boxes.

** Otherwise known as BS EN 61508, Safety Integrity Level (SIL) is the international standard for electrical, electronic and programmable electronic safety related systems. It sets out the requirements for ensuring that systems are designed, implemented, operated and maintained to provide the required SIL level.*

Draeger Fire and Gas Detection Systems offer products, services and system solutions for all encompassing toxic, flammable and oxygen detection, flame detection and design, build, commission and maintenance of fire and gas detection systems for protection of personnel and assets.

Further information is available from Marion Mackenzie, Draeger UK Limited, Ullswater Close, Blyth Riverside Business Park, Blyth, Northumberland, NE24 4RG. Tel: 01670 561413. Fax: 01670 544475.

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The Drägerwerk AG & Co. KGaA is an international leader in the fields of medical and safety technology. Dräger products protect, support and save lives. Founded in 1889, in 2008 Dräger generated revenues of around EUR 1.9 billion. The Dräger Group is currently present in more than 190 countries and has about 11,000 employees worldwide. Please visit www.draeger.com for more information.

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