

Lorem Ipsum

"Neque porro quisquam est qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit..."

"There is no one who loves pain itself, who seeks after it and wants to have it, simply because it is pain..."

 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Mauris vitae erat nibh. Morbi imperdiet scelerisque massa, non ornare turpis elementum consectetur. Praesent laoreet vitae libero eget pulvinar. Fusce malesuada massa at tincidunt tincidunt. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Nam sed tincidunt turpis. Quisque tincidunt dictum augue sed egestas. Ut scelerisque leo sit amet lectus vehicula, et posuere enim porttitor. Fusce porta varius elit vel consequat. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Quisque in ex libero. Nullam augue mauris, blandit sit amet neque eu, viverra congue est.

 Mauris ac auctor dolor. Proin maximus quam id magna vulputate ultricies. Maecenas lacinia dolor eros, a bibendum tellus bibendum vitae. Praesent vel neque imperdiet, eleifend est vel, pharetra ex. Vivamus a hendrerit nisl. Etiam dignissim sed arcu in cursus. Pellentesque rutrum semper justo, ut ornare mi vehicula sodales. Fusce ut imperdiet nisl. Nullam suscipit, lectus et semper ornare, ante nisi semper lorem, in viverra mauris augue non eros. Nam tincidunt mauris mi, nec congue est bibendum vel. Morbi ullamcorper eros at tempus suscipit. Nunc mattis sed lectus at eleifend. Morbi convallis augue metus, accumsan malesuada elit consectetur quis. Donec vel turpis efficitur, malesuada ligula ut, blandit dui. Integer at purus et quam blandit volutpat. Donec vel orci efficitur, sodales diam nec, malesuada ipsum.

 Nullam euismod, odio in ornare fermentum, nunc sapien vestibulum erat, aliquam elementum est est sed erat. Proin facilisis lacus vitae magna volutpat, vitae commodo velit volutpat. Aliquam rutrum erat a nibh elementum, quis eleifend nulla fringilla. Proin sed velit pulvinar est consequat rhoncus ut non augue. Cras id velit purus. Aliquam convallis venenatis ultrices. Nam pulvinar aliquet magna, at ornare ligula cursus vel. Curabitur vitae cursus ante. Morbi congue lorem ac ante pretium commodo. Nulla imperdiet diam eget tortor dignissim egestas sit amet sem.

 In purus elit, finibus quis nisi ut, placerat consectetur erat. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Aenean non metus turpis. Vestibulum at iaculis massa. Nunc orci magna, congue a egestas nec, vulputate non mauris. Fusce malesuada a ipsum eu porttitor. Cras pretium porta tempor. Integer pulvinar convallis ipsum at varius. Cras convallis varius arcu eget egestas. Praesent ullamcorper nisl ex, et mollis ante sagittis vel. Ut elementum ligula enim. Maecenas massa dui, malesuada in metus nec, vulputate efficitur nibh.

 Curabitur dictum lacus magna. Integer ex velit, malesuada eu ligula id, suscipit sagittis lacus. Phasellus cursus viverra ultrices. Maecenas magna arcu, finibus eget elit vitae, iaculis ornare tellus. Nullam faucibus libero felis, in efficitur lorem vestibulum id. Aliquam sagittis scelerisque tellus, a gravida orci suscipit quis. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Pellentesque ac risus arcu. Aliquam condimentum massa sed tincidunt tincidunt. Pellentesque non mauris in elit rhoncus condimentum. Vivamus tempus lacus ex. Integer malesuada, justo sed finibus egestas, risus velit porta erat, a tempor sem augue vel leo. Ut nisi massa, egestas quis orci nec, varius condimentum lorem. Nullam hendrerit feugiat lacinia. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae;



(Shown with pendant mount. See how to order for mounting options)



► Model 27XST

Explosion-Proof Strobe Light

A **B** **C** **G** **M** **R**

Federal Signal's Model 27XST explosion-proof strobe light features a voltage in-rush limiting PCB design that provides greater compatibility with factory automation control systems and less electrical interference with in-rush sensitive devices.

Three mounting options are available: pendant, ceiling or 90° wall mount. For easy installation, the mounting box is first installed and the fixture is then threaded onto the mounting box, making the electrical connection. Pre-install the mounting bracket and electrical continuity is made when five threads are engaged.

Federal Signal's Model 27XST is specifically designed for explosion-proof atmospheres and/or corrosive environments. Because it is easy to install and requires very low maintenance, it is ideal for use in areas such as oil rigs, mines, refineries, and chemical plants.

FEATURES

- Approved for mounting in any manner—including dome up
- Available in 24VDC, 120VAC and 240VAC
- Six lamp/lens colors: Amber, Blue, Clear, Green, Magenta and Red
- 10,000 hour strobe tube
- 3/4" NPT pendant, ceiling and wall mount options available
- Dome guard optional
- Conformal coated PCB
- Type 4X, IP66 enclosure
- IP69K compliant
- Marine Rated
- CSFM Approved
- UL and cUL Listed for Class I, Division 1 and 2, Groups C and D; Class I, Division 2, Groups A and B; Class II, Division 1, Groups E, F, and G; Class III

MODEL	VOLTAGE	OPERATING CURRENT	FLASH RATE/MINUTE	LIGHT OUTPUT PEAK ¹	ECP ²
27XST-024 * -MOD ¹	24VDC	1.90 amps (3.0 amp In-rush)	80	2,000,000 cd	850 cd
27XST-120 * -MOD ¹	120VAC 50/60Hz	1.14 amps	80	2,000,000 cd	850 cd
27XST-240 * -MOD ¹	240VAC 50/60Hz	1.14 amps	80	2,000,000 cd	850 cd

* Indicates color: (A) Amber, (B) Blue, (C) Clear, (G) Green or (R) Red (Magenta available in 120VAC and 240VAC models only)

¹ See "how to order" for mounting options

² Peak candela is the maximum light intensity generated by a flashing light during its light pulse

³ ECP (Effective Candela) is the intensity that would appear to an observer if the light were burning steadily

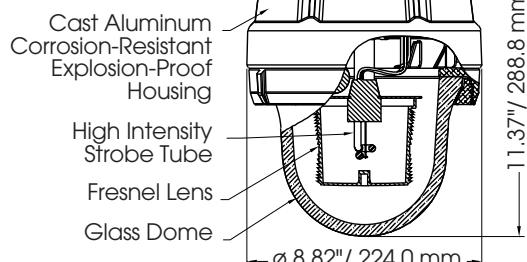
HAZARDOUS LOCATION RATING: 27XST

T-CODE AT MAXIMUM AMBIENT TEMPERATURE, °C

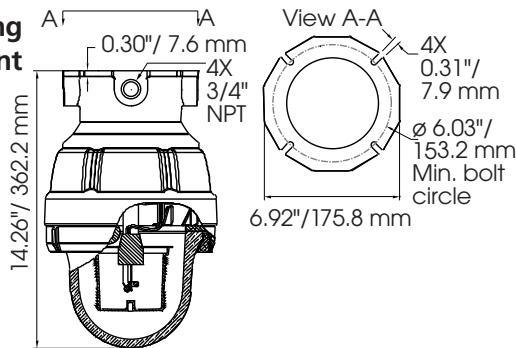
Hazardous Location	40°C	65°C
Class I, Division 1 & 2, Groups C, D	T6	T4A
Class I, Division 2, Groups A, B	T2	T2
Class II, Division 1, Groups E, F, G	T6	T4A
Class III	T6	T4A

Explosion-Proof Strobe Light (27XST)

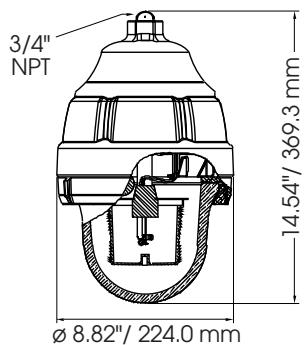
Standard Strobe Model



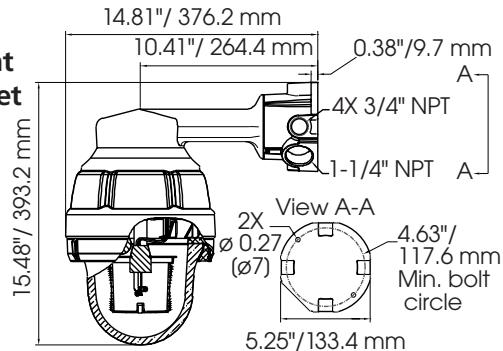
Ceiling Mount



Pendant Mount



Wall Mount Bracket



S P E C I F I C A T I O N S

Lamp Life:	10,000 Hours	
Light Source:	Strobe Tube	
Operating Temperature:	-67°F to 150°F -55°C to 65°C	
Net Product Weight		
Signal without Mounting:	13.9 lbs	6.3 kg
Ceiling Mount:	4.5 lbs	2.0 kg
Pendant Mount:	2.0 lbs	0.9 kg
Wall Mount:	5.9 lbs	2.7 kg
Shipping Weight		
Signal without Mounting:	14.7 lbs	6.67 kg
Ceiling Mount:	5.3 lbs	2.40 kg
Pendant Mount:	2.8 lbs	1.27 kg
Wall Mount:	6.7 lbs	3.03 kg

R E P L A C E M E N T P A R T S

Description	Part Number
Exterior Dome Assembly, Clear	K8436147A
Interior Lens Assembly, Amber	K8550C095A-02
Interior Lens Assembly, Blue	K8550C095A-01
Interior Lens Assembly, Clear	K8550C095A
Interior Lens Assembly, Green	K8550C095A-04
Interior Lens Assembly, Magenta	K8550C095A-07
Interior Lens Assembly, Red	K8550C095A-03
24VDC Mechanism	K8436107F-03
120VAC Mechanism	K8436107E-02
Strobe Tube	K8107159A

O P T I O N A L A C C E S S O R I E S

Description	Part Number
Dome Guard	DGXC-SB

H O W T O O R D E R

27XST - 024 A - MOD

TYPE
27XST

VOLTAGE
024 (24VDC)
120 (120VAC)
240 (240VAC)

COLOR
A Amber
B Blue
C Clear
G Green
M Magenta
R Red

Specify Optional Mounting:^{*}

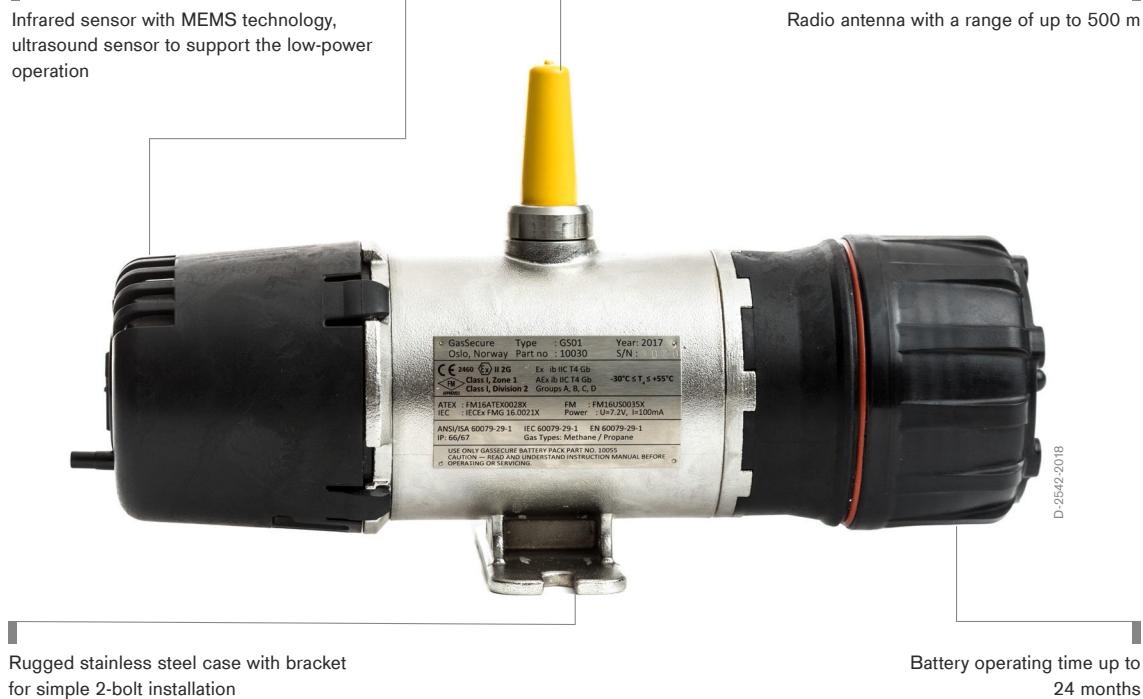
Description	Part Number
Ceiling Mount	CMXC-SB
Pendant Mount	PMXC-SB
Wall Mount	WMXC-SB

* Mounting kit must be ordered with unit, sold separately

GS01 (wireless)

Detection of flammable gases and vapors

The GS01 is a wireless infrared gas transmitter for continuous monitoring of flammable hydrocarbon gases and vapors in the oil and gas industry. The intrinsically safe and SIL-rated transmitter features completely wireless signal transmission and power supply. This makes the GS01 a flexible and cost efficient solution for plant expansions, upgrades, and new greenfield projects.



Benefits

Installations in demanding conditions

On offshore platforms or FPSOs, at tank farms and refineries - safety-related measuring points are everywhere in the oil and gas industry. Some of these measuring points are extremely difficult if not impossible to monitor using wired gas detection devices. The GS01 wireless transmitter requires no cable installation, either for signal transmission or for its power supply. As such, installation is easy and uncomplicated and the transmitter sends its signal to the access point up to 1640 feet away.

No cable conduits are required for the power supply or for signal transmission. Plus, the GS01-EA product variant with separate antenna can be installed inside the buildings where signal transmission is impossible due to shielding.

For temporary applications, such as maintenance work on petrochemical plants or exploratory drilling, the GS01 offers you maximum flexibility. It can be seamlessly integrated into your existing safety features. Even technically complex installations, such as on the rotating tower of an FPSO, can now be carried out without hassle.

Saving time and money throughout the project

The project costs with GS01 can be significantly lower than those for wired installations; as example the installation cost can be reduced up to 60 to 80%. Wireless communications and battery power decrease the need for cables, junction boxes, and control cabinets. Site installation work is significantly reduced with the ability to pre-configure all devices in advance. Additionally, planning, configuration and documentation of the system is minimised.

This is made possible by the intelligent design of the GS01. The transmitter draws less than 5 milliwatts of power. That means that depending on the ambient conditions, it can run for up to 2 years without the batteries needing to be replaced. The intrinsically safe design allows the battery pack to be replaced easily, even in the hazardous area.

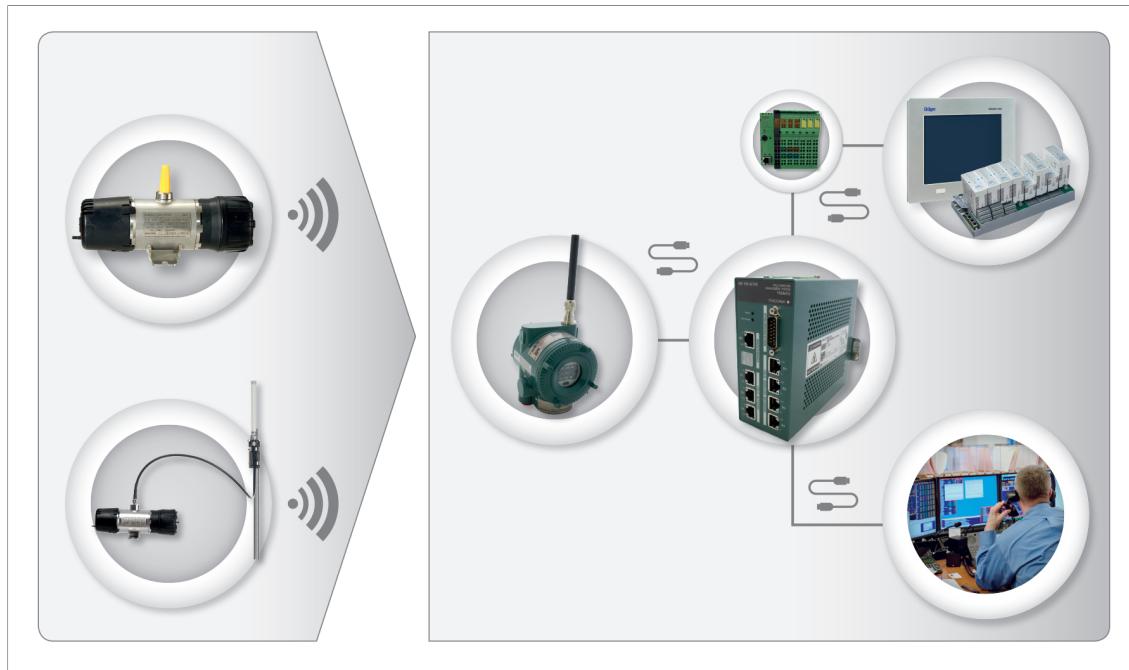
Saving time and money during operation

Infrared sensor technology is taken to the next level using patented MEMS (Micro Electromechanical System) optical filters. MEMS remains stable for a long period of time and eliminates the need for re-calibration, which directly reduces the maintenance costs. The infrared detection with MEMS operates at three different wavelength and includes heated optics to prevent condensation in the sensor.

Safe, wireless communication

The SIL2-capable GS01 uses the ISA100.11a wireless standard for wireless communication. A great benefit of this object-based standard is the possible embedding of foreign protocols, including the SIL3-certified safety protocol PROFIsafe. In combination with GasSecure's patented SafeWireless™ communication concept for fast and secure transfer of measurement data, this enables easy integration of the GS01 into safety instrumented systems (SIS) with a fully SIL2-capable signal chain. Furthermore, the open ISA100.11a standard supports easy integration of other field devices into the wireless network.

Presenting a GS01 System



The GS01 transmits its detection signal wirelessly to the access point. From there, the signal is transferred to the gateway. This feeds the control unit directly via Modbus or with the PROFINET® protocol. For analogue analyser units, a D/A converter can alternatively be used.

System Components



D-11979-2017

Yokogawa Access Point

The Yokogawa access point enables the user to access the wireless ISA100.11a network.

This product is manufactured by the company of Yokogawa.

System Components



Yokogawa Gateway

The Yokogawa gateway manages the wireless ISA100.11a network.

This product is manufactured by the company of Yokogawa.



Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and highly expandable analysis tool. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 is exceptionally reliable and efficient.



Phoenix Contact 4-20 mA Converter

The Phoenix Contact 4-20 mA converter is a digital-analogue converter for connecting to control units with conventional 4-20 mA input channels.

This product is manufactured by the company of Phoenix Contact.

Accessories



D-9986-2016

External antenna

The external antenna allows the GS01-EA to be used even if radio transmission is restricted, e.g. by a Faraday cage.



D-11975-2017

Sun and weather shield

The sun and weather shield protects the GS01 from direct sunlight and adverse weather conditions.

Services



D-19072-2016

Dräger Service

When your operation's safety equipment is backed by over 125 years of experience and supported by the same team that engineered it, you can rely on service and rental solutions that are tailored to meet your unique needs. With Dräger's safety solutions, you get complete peace of mind, budget security, and full-service support that you can count on every step of the way. That's the Dräger Service Advantage.

Related Products



D-14983-2010

Dräger Polytron® 8700 IR

The Dräger Polytron® 8700 IR is an advanced explosion proof transmitter for the detection of combustible gases in the lower explosion limit (LEL). It uses a high performance infrared Dräger PIR 7000 sensor, which will quickly detect most common hydrocarbon gases. Besides a 3 wire 4 to 20 mA analogue output with relays, it also offers Modbus and Fieldbus making it compatible with most control systems.



D-4649-2019

Dräger Polytron® 6100 EC WL

The Dräger Polytron 6100 EC WL is a wireless transmitter for continuous monitoring of toxic gases and oxygen. The intrinsically safe and SIL2-rated transmitter features completely wireless signal transmission and power supply. The internal battery pack allows the transmitter to operate continually for up to 24 month. This makes the Polytron 6100 a flexible and cost efficient solution for plant expansions, upgrades, and new installations.

Technical Data

General	Measuring principle	Infrared single beam, triple wavelength
	Detectable gases	ATEX / IECEx: 0 to 100 % LEL (Methane, Propane) FM: 0 to 100 % LEL (Methane) 0 to 80 % LEL (Propane)
	Calibration	Factory-set, no field calibration
Performance	Response time	≤5 seconds
	Accuracy	±3 % LEL or ±10 % of measured value, each the higher value (refers to Methane)
	Zero-point stability	±3 % LEL (lifelong)
Electrical Data	Battery type	Lithium-Thionyl Chloride
	Average power	5 mW
	Battery lifetime	Up to 2 years (depending on the environmental conditions)
	RF power	GS01: <12 dBm EIRP GS01-EA: <16 dBm EIRP
Communication	Type	IEEE802.15.4 in 2.4 GHz ISM Band
	Protocol	ISA100 Wireless™
	Gateway output	Standard: Modbus TCP/RTU, OPC Optional: PROFINET® (SIL2)
Environmental Conditions	Operating temperature	-30 degrees C/-22 degrees F to + 55 degrees C/131 degrees F (if higher temperature ranges up to +65 °C are required please contact Dräger)
	Storage temperature	-40 degrees C/ -40 degrees F to + 65 degrees C/149
	Humidity	0 to 100 % RH
Housing	Protection Class	IP66 and IP67
	Dimensions	11.81" x 4.33" x 6.70"
	Weight	6.17 lbs (incl. Battery)
	Mounting	With bracket for 8 mm or 5/16" bolts
Approvals	ATEX / IECEx	II 2G Ex ib IIC T4 Gb (-30 degrees C/-22 degrees F to + 55 degrees C/131 degrees F.)
	FM	Class I, Zone 1 AEx ib IIC T4 Gb (-30 degrees C/-22 degrees F to + 55 degrees C/131 degrees F.)
		Class I, Div 2 Group A, B, C, D (-30 degrees C/-22 degrees F to + 55 degrees C/131 degrees F.)
	Performance Approval	Compliant with EN 60079-29-1
	Safety Integrity Level	SIL2 IEC 61508, Ed.2.0

PROFINET® is a registered trademark of PROFIBUS and PROFINET International (PI).

The ISA100 Wireless™ is a trademark of ISA100 Wireless Compliance Institute.

Ordering Information

GS01 wireless IR Gas Detector FM	AL20735
GS01-EA wireless IR Gas Detector-5m FM	AL20737

Ordering Information

GS01-EA wireless IR Gas Detector-10m FM	AL20738
GS01-EA wireless IR Gas Detector-20m FM	AL20739
GS01 Battery pack FM (without cells)	AL20713
GS01 Battery cell type SL-2780/S	AL20706
GS01 Battery cover	AL20708
GS01 Weather cap	AL20709
GS01 Serial adapter	AL20710
GS01 Sunshade / weather protection	AL20711

Not all products, features, or services are for sale in all countries.
 Mentioned Trademarks are only registered in certain countries and not necessarily in the country
 in which this material is released. Go to [www.draeger.com/trademarks](http://www draeger com/trademarks) to find the current status.

CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
 Moislinger Allee 53–55
 23558 Lübeck, Germany
[www.draeger.com](http://www draeger com)

USA

Draeger, Inc.
 7256 S. Sam Houston Parkway W.,
 Suite 100
 Houston, TX 77085
 1 800 4DRAGER
 (1 800 437 2437)

CANADA

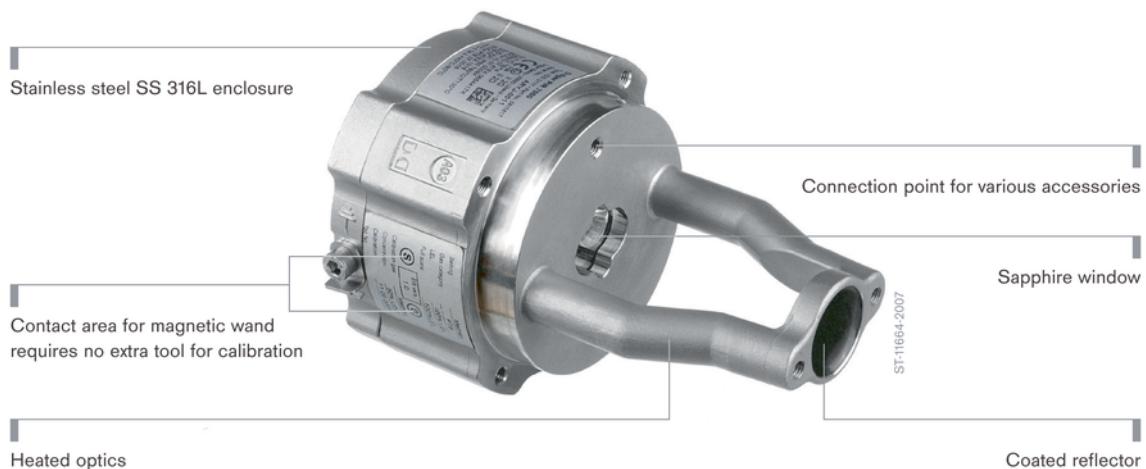
Draeger Safety Canada, Ltd.
 2425 Skymark Ave., Unit 1
 Mississauga, Ontario L4W 4Y6
 1 877 DRAGER1
 (1 877 372 4371)

Locate your Regional
 Sales Representative at:
[www.draeger.com/contact](http://www draeger com/contact)



Dräger PIR® 7000 Flammable Gas Detection Transmitter

Constant monitoring of flammable gases and vapors is essential for a safe workplace. The Dräger PIR® 7000 is an explosion-proof point gas detection transmitter that uses infrared (IR) technology to continuously monitor flammable gases and vapors. With its stainless steel SS 316L enclosure and drift-free optics, this detector is built for the harshest industrial environments, including offshore installations.



Benefits

Accurately detects a wide range of flammable substances

Two models of the Dräger PIR 7000 are available—type 334 and type 340. Each model works with a different measuring wavelength, thus detecting the broadest possible range of flammable substances with superior accuracy.

Advanced signal stability

Following the success of the most stable point infrared gas detector worldwide—the Dräger Polytron IR—Dräger has introduced the PIR 7000, which encompasses the latest in revolutionary technology.

Based on patented innovations, the Dräger PIR 7000 combines a maximum light collecting construction with a 4-beam signal stabilizing system. The total optical system uses no light beam split, simply a set of various reflectors. This double-compensating optical system is very resistant to accumulation of dirt on the optical surface, as well as known influences such as dust, fog and insects, which are frequently found in the measuring cuvette. Due to its non-imaging construction, the measuring signal is not affected by a partial beam block.

This innovative optical system ensures that the Dräger PIR 7000 fulfills the customer requirements of no false alarms, longer service intervals, and a drift-free signal output.

Early detection enables fast response

For optimal safety, it is essential to be informed about a potential hazard as early as possible. A reliable gas monitor that detects leakages at the earliest stage allows you to initiate safety measures on site.

To support fast response, the Dräger PIR 7000 offers a configurable response mode that lets you choose between “normal” or “high speed” response, subject to the application. By using the “high speed” option, and combining it with the lowest feasible alarm threshold, the Dräger PIR 7000 shortens the reaction time in case of an alarm. Leakages can be detected at the earliest stage of their existence.

Multiple configuration capabilities

The Dräger PIR 7000 has a maximum number of default settings, but remains fully flexible to meet your needs on an application-by-application basis—whether you want to reduce measuring ranges, configure special signals (fault, beam block warning, maintenance), or adjust LEL values that are different across regions, all coupled with the configurable gas library (for other substances to be monitored). All these features of the Dräger PIR 7000 enable you to set up every device exactly to your specific needs and preferences.

Standards-based design ensures high safety and reliability—SIL 2 certified

Almost two decades of experience with infrared technology has enabled Dräger to continuously enhance product quality. With the Dräger PIR 7000, the entire product—hardware and software—has been developed according to the Functional Safety standard EN 61508.

Benefits

The International Electrotechnical Commission's (IEC) standard IEC 61508 defines Safety Integrity Level (SIL) using requirements grouped into two broad categories: hardware safety integrity and systematic safety integrity. A device or system must meet the requirements for both categories to achieve a given SIL.

The Dräger PIR 7000 not only fulfills but exceeds SIL 2 requirements.

Additional advantages

- Configurable gas library—methane, propane and ethylene fixed, up to 10 additional substances can be uploaded
- Multiple mounting and configuration capabilities (signals acc. to NAMUR NE 43)
- Precise and stable measurement
- Response of less than 1 second
- Beam block warning in case of dirty optics for preventive maintenance
- Long maintenance intervals
- Extended temperature range of up to +77°C/+170°F
- Double-compensating, non-imaging optics (using 4-beam technology)
- Single cable multidrop capability using HART® communication
- Conventional 4 to 20 mA analog signal output
- Hermetically sealed SS 316L enclosure
- Integrated tag holder for individual labelling
- No moving parts
- Resistant to shock and vibration up to 4 G
- Continuous self-testing in the context of the IEC/EN 61508 standard
- Developed and manufactured according to the SIL guidelines, SIL 2 certified by TÜV
- Ex approvals for worldwide application: ATEX, IECEx, UL, CSA
- Dust approval for zones 21 and 22
- Typical lifetime greater than 15 years

System Components



D-6806-2016

Dräger REGARD® 7000

When you need to monitor and analyze a number of various gases and vapors, the Dräger REGARD® 7000 is a modular and highly expandable analysis tool. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 is exceptionally reliable and efficient. An additional benefit is the system's backward compatibility with legacy REGARD® controllers.



D-27777-2009

Dräger REGARD® 3900

The Dräger REGARD® 3900 is a standalone control system for the detection of toxic gases, oxygen levels, and Ex hazards. The control system is fully configurable between 1 and 16 channels, depending upon the type and quantity of input/output boards installed.



ST-335-2004

Dräger REGARD®-1

The Dräger REGARD®-1 is a standalone single-channel control system for the detection of toxic and Ex hazards and oxygen levels. The control system is fully configurable for a single input from either a 4 to 20 mA transmitter or a Dräger Polytron® SE Ex measuring head.

Accessories



ST-1167-3-2007

Mounting Set

This set lets you mount the transmitter on flat or curved surfaces, is vibration-resistant up to 4 G, and swings 90° in any direction.

Part number: 68 11 648



ST-5732-2006

Duct Mount Kit

This set lets you mount the transmitter directly in the pipes, remaining air-tight even under positive pressure. Optional accessory parts are available for functional checks and remote calibration.

Part number: 68 11 850



ST-11679-2007

Splash Guard

This unit protects the measuring cuvette against dirt and dust, provides quick gas exchange through a "chimney effect", and has reflective fluorescent strips.

Part number: 68 11 911



ST-11706-2007

Insect Guard

This UV-resistant guard protects against spiders or other insects that might block the gas inlet or outlet apertures of the splash guard.

Part number: 68 11 609

Accessories



ST-11689-2007

Hydrophobic Filter

This filter protects the measuring cuvette against dirt and dust, and can be combined with other accessory parts.

Part number: 68 11 890



ST-11681-2007

Calibration Adapter

Mountable with one hand, this adapter lets you calibrate a transmitter (with mounted splash guard), up to a wind force of 55 mph.

Part number: 68 11 610



ST-11695-2007

Status Indicator

The status indicator permanently displays the measuring mode or disruption with a green or yellow light signal, and can be combined with other accessory parts.

Part number: 68 11 625



ST-11695-2007

Flow Cell

Suitable for process applications, this flow cell lets you perform function tests and calibrations of the transmitter in high wind forces and/or high test gas concentrations, and includes a status display.

Part number: 68 11 490

Accessories



Remote Test Adapter

This adapter lets you perform function tests and calibrations of the transmitter remotely with the usual test gas concentrations, and includes a status display.

Part number: 68 11 630



Process Adapter

Constructed of conductible POM, this adapter is designed for sampling and process applications, and provides fast response due to minimum inner volume.

Part number: 68 11 915



Process Cuvette SGR

Designed for sampling or process applications, this stainless steel unit provides fast response due to a minimum inner volume.

Part number: 68 13 219



Magnetic Wand

This device enables simple and fast calibration (zero-point and sensitivity) of the transmitter, providing feedback through status lights.

Part number: 45 43 428

Accessories

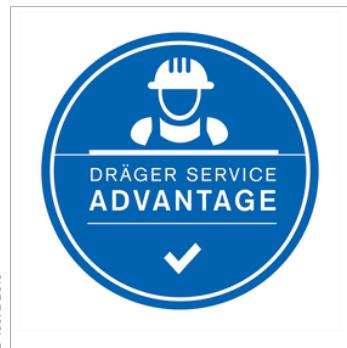


Dräger Polysoft

Dräger Polysoft is configuration and calibration software for the following stationary gas detection systems: Dräger PIR 7000, Dräger PIR 7200, Dräger Polytron® 8000, and includes status and diagnostic functions.

Part number: 83 23 405

Services



Dräger Service

When your operation's safety equipment is backed by over 125 years of experience and supported by the same team that engineered it, you can rely on service and rental solutions that are tailored to meet your unique needs. With Dräger's safety solutions, you get complete peace of mind, budget security, and full-service support that you can count on every step of the way. That's the Dräger Service Advantage.

Related Products



ST-11660-2007

Dräger PIR 7200

When looking for a carbon dioxide monitor you can trust, consider the Dräger PIR 7200. This explosion-proof point gas detection transmitter uses the latest infrared (IR) technology to provide early detection of toxic gas. Designed for a wide variety of industrial environments, the transmitter offers drift-free optics. Due to its robust design and engineering, the PIR 7200 can be operated in harsh industrial environments.



ST-743-2006

Dräger Polytron® IR

The Dräger Polytron® IR is an explosion-proof infrared gas detector for continuous monitoring of combustible gases and vapors. With its stainless steel body and drift-free optics, this gas detector is built for harsh offshore environments.



ST-3932-2005

Dräger Polytron® Pulsar 2

The Dräger Polytron® Pulsar 2 represents the latest infrared technology in open path gas detection. Equipped with all the same functions as the standard Dräger Pulsar, Dräger Pulsar 2 is fitted with an ABS molded cover and comes with either a junction box or certified connector to provide installation flexibility.

Technical Data

Dräger PIR 7000

Type	Explosion-proof gas detection transmitter with infrared sensor technology
Principle of operation	Temperature-compensated infrared absorption, 4-beam technology
Gases and ranges	Methane, propane, ethylene Methane Further substances and measuring ranges on request
	0 to 20...100 %LEL 0 to 100 % vol.
Measuring performance (type 334, methane, 0 to 100 %LEL)	Digital resolution Repeatability Response time $t_{0..90}$ Long-term drift
	0.5 %LEL $\leq \pm 1$ %LEL \leq 4 seconds ("normal response") $<$ 1 second ("fast response") $\leq \pm 1$ %LEL after 12 months
Electrical data	Output signals Fault signal Beam block warning signal Maintenance signal Power supply Power consumption
Ambient conditions	Temperature Humidity Pressure
Enclosure	Material Connecting thread Weight Dimensions Ingress protection
Approvals	ATEX IECEx UL (Classified) CSA (C-US) Safety Integrity Level CE mark: electromagnetic compatibility (directive 89/336/EEC)

Ordering Information

Dräger PIR 7000

Dräger PIR 7000 type 334 (NPT) HART®	68 11 552
Dräger PIR 7000 type 334 (M25) HART®	68 11 550
Dräger PIR 7000 type 334 (M25) HART®, complete set	68 11 817
Dräger PIR 7000 type 340 (NPT) HART®	68 11 562

Ordering Information

Dräger PIR 7000 type 340 (M25) HART®	68 11 560
Dräger PIR 7000 type 340 (M25) HART®, complete set	68 11 819

The complete set contains an Ex e junction box, splash guard, status indicator and mounting set, already pre-assembled.

Accessories

Mounting Set	68 11 648
Duct Mount Set	68 11 850
Splash Guard	68 11 911
Insect Guard	68 11 609
Hydrophobic Filter	68 11 890
Calibration Adapter	68 11 610
Status Indicator	68 11 625
Flow Cell	68 11 490
Bump Test Adapter	68 11 630
Process Adapter	68 11 915
Process Cuvette	68 11 415
Magnetic Wand	45 43 428
USB PC Adapter	68 11 663

Polytron and REGARD are trademarks of Dräger.

HART® is a registered trademark of the HART® Communication Foundation.

Notes

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country
in which this material is released. Go to www.draeger.com/trademarks to find the current status.

CORPORATE HEADQUARTERS
Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

Customer Service:
USA
+1 800-4DRAGER
(+1 800-437-2437)

CANADA
+1 877-DRAGER1
(+1 877-372-4371)

Technical Service:
USA
+1 800-4DRAGER
(+1 800-437-2437)

Locate your Regional
Sales Representative at:
www.draeger.com/contact



Dräger PointGard 2700

Detection of flammable gases and vapors

The Dräger PointGard 2700 is a self-contained gas detection system for the continuous area monitoring of flammable hydrocarbon gases and vapors in ambient air. PointGard 2700's rugged, water-resistant housing comes complete with a horn and strobes, a built-in power supply, and external relays. It is compatible with a remotely mounted Dräger PIR 7000 Type 334 or Type 340 infrared gas sensor.



Benefits

Uses the high performance Dräger PIR 7000 infrared sensor

With its stainless steel 316L enclosure and drift free optics, the Dräger PIR 7000 is built for the harshest industrial environments such as offshore installations. The unique 4 beam signal stabilizing system makes the sensor resistant to dust or dirt deposits on the optical surfaces. Environmental and ageing effects are largely compensated ensuring long term, drift free operation. The integrated gas library with more than 70 gases provides a high degree of application flexibility. Each of the gases listed there can be picked from the menu and automatically cross-calibrated with a standard calibration gas such as methane or propane.

Waterproof stainless steel IR sensor

Thanks to its innovative splash guard and waterproof enclosure, the PIR 7000 sensor is ready for extreme conditions such as areas with daily high-pressure wash-downs and extreme temperature and humidity levels. It is available with an aluminum or 316L stainless steel junction box.

Flexible communications

PointGard can accommodate additional external alarm devices through its three built-in relays. In addition, a 4–20 mA signal with HART® output allows integration into a larger gas detection system.

Rugged and compact housing

PointGard's glass fiber reinforced polyester housing is water and dust resistant with a 4X/IP66 rating. Its compact size allows it to easily fit most applications. Built-in cable glands make it easy to install.

Advanced display with diagnostics

The large, illuminated backlit graphic display shows status information clearly and in a format that's easy to use. The measured gas concentration, selected gas type, and measuring unit are displayed during normal operation. Colored LEDs (green, yellow, and red) provide additional alarm and status information. Advanced diagnostics log events and gas readings, which can be displayed and a graph created on the display.

Monitor remote areas up to 30 meters (98 feet) away

The Dräger PIR 7000 sensor is designed to be installed in Zone 1 classified hazardous areas remotely from the PointGard 2700 with a four-conductor shielded cable up to 30 meters (98 feet) long. The cable and Dräger PIR 7000 sensor must be ordered separately from the PointGard 2700.

Accessories



D-0985-2020

Remote sensor Dräger PIR 7000 (NPT) complete set

The Dräger PIR 7000 can be placed up to 30 meters (98 feet) from the PointGard 2700. The Ex d type of protection allows operation in hazardous areas (see approvals). Please note that the shielded four-wire cable is not included.

Related Products



D-7553-2016

Dräger PointGard 2100

The Dräger PointGard 2100 series is a self-contained gas detection system for the continuous area monitoring of toxic gases in ambient air. PointGard 2100's rugged, water-resistant housing comes complete with a horn and strobes, a built-in power supply, and reliable DrägerSensor®.



D-11949-2016

Dräger PointGard 2200

The Dräger PointGard 2200 series is a self-contained gas detection system for the continuous area monitoring of flammable gases and vapors in ambient air. PointGard 2200's rugged, water-resistant housing comes complete with a horn and strobes, a built-in power supply, and reliable DrägerSensor®.

Technical Data

Dräger PointGard 2700 IR		Hydrocarbons in the ambient air	
Type		Self-contained gas monitor with alarm devices for general-purpose applications	
Gases and measuring ranges		Methane, propane, ethylene	0 – 20...100 % LEL
		Methane	0 – 100 Vol.- %
Other substances and measuring ranges on request			
Display and controls	LCD display	Graphic LC-Display 75 mm/3 inch with backlight	
	Indicator	Red or green backlight selectable, alphanumeric	
	Operation	3 status LEDs (green/yellow/red), 85 dB - 100 dB adj. piezo horn	
	Security	Through three front mounted push buttons	
	Functions	Separate passwords for maintenance and configuration menu	
Electrical data		Event and data logger with a capacity of up to 35,000 records	
		Warning and error messages displayed in plain text	
		Passwordless bump-test mode inhibits alarms	
		Automatic calibration mode for zero and span	
Signal output analog		Normal operation	4–20 mA
		Maintenance	Constant 3.4 mA or 4 mA ±1 mA 1 Hz modulation (adjustable)
Power supply AC version		Fault	<1.2 mA
		Operating voltage	100–240 VAC 50–60 Hz
		Nominal power	12 W
		Operating current (max)	0.5 A
Power supply DC version		Inrush current	Max. 40 A at 230 VAC 50 Hz
		Operating voltage	8–30 VDC
		Nominal power	12 W
		Operating current (max)	2.5 A
Electrical certification		CE rating, IEC/EN 61010-1	
		Complies with UL 61010-1	
		Class B device, residential use compliant with ICES-3(B)/NMB-3(B)	
Relay specification		2 alarm relays and 1 fault relay	
		SPDT contact 5 A @ 230 VAC, 5 A @ 30 VDC, resistance bound	
		Alarm reset through front-mounted push button	
Alarm devices		Variants with amber and red LED strobes activate on 2 alarm levels independently	
		Variants with green steady light activate red strobe on 1 common alarm level. Green steady light turns off during alarm or fault condition; optional blue LED strobe	
		85–105 dB adjustable-volume buzzer with continuous and pulsating tone	
Environmental conditions (see Dräger PIR 7000 data sheet)		Temperature (storage)	-20 to +65 °C/-4 to +149 °F
		Temperature (operation)	-20 to +50 °C/-4 to +122 °F
		Humidity	0 to 95% r. h., noncondensing
		Pressure	20.7 to 38.4" Hg/700 to 1,300 hPa
Housing		Material	Glass fiber reinforced polyester (GFRP)
		Mounting	Wall mount with internal screws or optional SS mounting brackets
		Housing protection type	IP66 (pending); indoor or outdoor use
		Housing certification	UL 508A/50/50E; CSA C22.2
		Cable entry point	94.1/94.2/14-13 3 cable glands, 1/2" NPT

Technical Data

Size (L x W x D)	10 x 11 x 4.7" (255 x 280 x 120 mm)
Weight	5 lbs (2.3 kg)

Ordering Information

Dräger PointGard 2700 IR (Order Dräger PIR 7000 sensor separately)

Dräger PointGard 2700/2720 IR AC Remote	37 06 858
Dräger PointGard 2700/2720 IR DC Remote	37 06 859
Dräger PointGard 2700/2720 IR AC Remote w/ green light	37 06 860

Dräger PointGard 2700 IR compatible Sensors

Dräger PIR 7000 Type 334 (NPT) HART®, complete Set (Stainless Steel)	68 13 035
Dräger PIR 7000 Type 340 (NPT) HART®, complete Set (Stainless Steel)	68 13 045
Dräger PIR 7000 Type 334 (NPT) HART®, complete Set (Aluminum)	68 13 030
Dräger PIR 7000 Type 340 (NPT) HART®, complete Set (Aluminum)	68 13 040

The complete set includes the Ex d junction box, the splash guard, and the status indicator, already pre-assembled.

Dräger PointGard 2000 Series Common Accessories

Mounting Bracket Set (not included in Dräger PointGard)	83 26 497
IR Connection Kit for PC configuration and upgrades	45 44 197
LED status light green w/ interface cable	83 26 489
LED strobe light, blue	83 26 472
AC Power Cable USA	83 26 451

HART® is a registered trademark of the HART Communication Foundation.

Notes

Not all products, features, or services are for sale in all countries.
Mentioned Trademarks are only registered in certain countries and not necessarily in the country
in which this material is released. Go to www.draeger.com/trademarks to find the current status.

CORPORATE HEADQUARTERS

Drägerwerk AG & Co. KGaA
Moislinger Allee 53–55
23558 Lübeck, Germany
www.draeger.com

USA

Draeger, Inc.
7256 S. Sam Houston Parkway W.,
Suite 100
Houston, TX 77085
1 800 4DRAGER
(1 800 437 2437)

CANADA

Draeger Safety Canada, Ltd.
2425 Skymark Ave., Unit 1
Mississauga, Ontario L4W 4Y6
1 877 DRAGER1
(1 877 372 4371)

Locate your Regional
Sales Representative at:
www.draeger.com/contact

