



Dräger Pulsar 7000 Series Flammable Gas Detectors

The Dräger Pulsar 7000 Series are stationary open path gas detectors for the detection of explosive hydrocarbons in gases and vapours. The robust design and the extremely rapid response time make the Dräger Pulsar 7000 Series a dependable solution for your requirements in the oil and gas industry, as well as the chemical industry.

Highlights

Reliable and quick measuring

The Pulsar 7000 Series detects a wide range of gaseous hydrocarbons. These include methane, propane and ethylene. An accumulation of these gases in critical concentration can be measured at a distance of up to 200 metres within two seconds. Status LEDs in the transmitter and receiver indicate the operational readiness of the respective device. The continuous self-monitoring offers additional safety. If the signal strength is insufficient, due to dirty optics or other non-operationally critical impairments, a configurable alarm signal will be issued to indicate the need for maintenance. However, the system remains ready for use and can continue to detect gases. In addition to increased operational readiness, there is the benefit of being able to plan maintenance and thus avoid unexpected downtime. The Pulsar 7000 Series is suitable for safety-related applications up to SIL 2.

Reliable even in adverse weather conditions

Reliability is guaranteed not just under ideal weather conditions. For fog, mist, heavy rain or snow, the Pulsar 7000 Series has a mode with increased flash rate and light intensity. Thus, increased IR absorption caused by environmental factors is compensated for. In addition, the heated optics prevent condensate or ice from forming on the lens.

Easy to align, configure and commission

The alignment of the transmitter and receiver and the subsequent commissioning of the system can be easily done by a single person, without the need for an additional telescope or alignment mirror. After an initial rough alignment by eye, the exact alignment of transmitter and receiver is carried out using the fine adjustment screws and a handheld terminal. The alignment is displayed either in a coordinate system with target optics or in the form of numeric coordinates. The built-in calibration feature in the Pulsar 7000 Series does not require manual adjustment or test gas. After alignment, an automatic zero point adjustment with system check starts, which completes the commissioning of the system. All parameters are stored and later used to detect misalignments or deposits on the lenses.

On site diagnostics

A handheld terminal can be used for predictive maintenance and on-the-spot troubleshooting. In addition to alignment and zeroing support, this interface also provides configuration and diagnostic features. Comprehensive diagnostics are possible with the PC software program Dräger PolySoft.

Documented security – protocol and integrated data

An integrated data logger stores the most recent errors, warnings and events. These include, for example, events such as blockages of the signal path, gas alarms, warning signals and any problems with the alignment or with the supply voltage. The data logger is supplemented by an hourly log of the values measured in this time. This includes essential data such as gas reading,

signal strength and temperature, which are available for the last ten weeks of operation. Even after that, information is available as a weekly summary of the last ten years of operation.

The right model for any job

The Pulsar 7000 Series offers suitable models for the most diverse applications. The offshore models are equipped with stainless steel junction boxes and cable glands. This makes them particularly robust and able to withstand the harsh environmental conditions. You can use the duct mount model to detect gas buildup in supply or exhaust ducts. The system is specially designed for shaft installations.

Specifications

Key Facts

Type	Open path
Measuring Principle	Infrared
Response time	<= 2 seconds
Cable entry	M20 or M25
Display	X
Intrinsic Safety	X
Flameproof	✓
Increased Safety	✓
SIL	✓ SIL 2, SC 3 (IEC 61508-1-3)
4-20 mA	✓
Bus	X
HART®	✓
Wireless	X

Technical Data

Power Supply	18 to 32 VDC
Temperature (operation)	-55°C - 60°C
Humidity	0 to 100 % r.h., non-condensing
Pressure (hPa)	800 - 1100
Dimensions (H x W x D)	43x67x17 cm
Weight	20.94 lb
Housing Material	Measuring unit: Stainless steel 316L Junction box: Stainless steel 316L or GRP
Degree of protection (IP class)	IP66/67

Approvals

ATEX	✓
IECEX	✓
UL	✓
CSA	✓
CE marking	✓
GOST (EAC)	✓
Performance approval	✓
Shipping approval	✓
FM	✓

Accessories



Communication port extension

The communication port extension brings the intrinsically safe port to a required height. It provides a robust connection between a portable communicator and the Pulsar 7000 and allows access to the unit's functions without the need for scaffolding or wire access equipment.



PIA – Pulsar interface adapter

The Dräger Pulsar Interface Adapter (PIA) is a rugged, weatherproof unit that is certified for use in hazardous areas. The PIA offers two interfaces for communication with the Pulsar 7000 series via an intrinsically safe connection. It can be used in combination with a HART® handheld terminal or with a PC with PolySoft via the IR interface as protocol converter. This allows you to align and calibrate the transmitter and receiver of the Pulsar.

Connective Products



Dräger REGARD® 7000

- Highly expandable control and analysis system
- Monitors various gases and vapours
- Suitable for complex gas warning systems

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