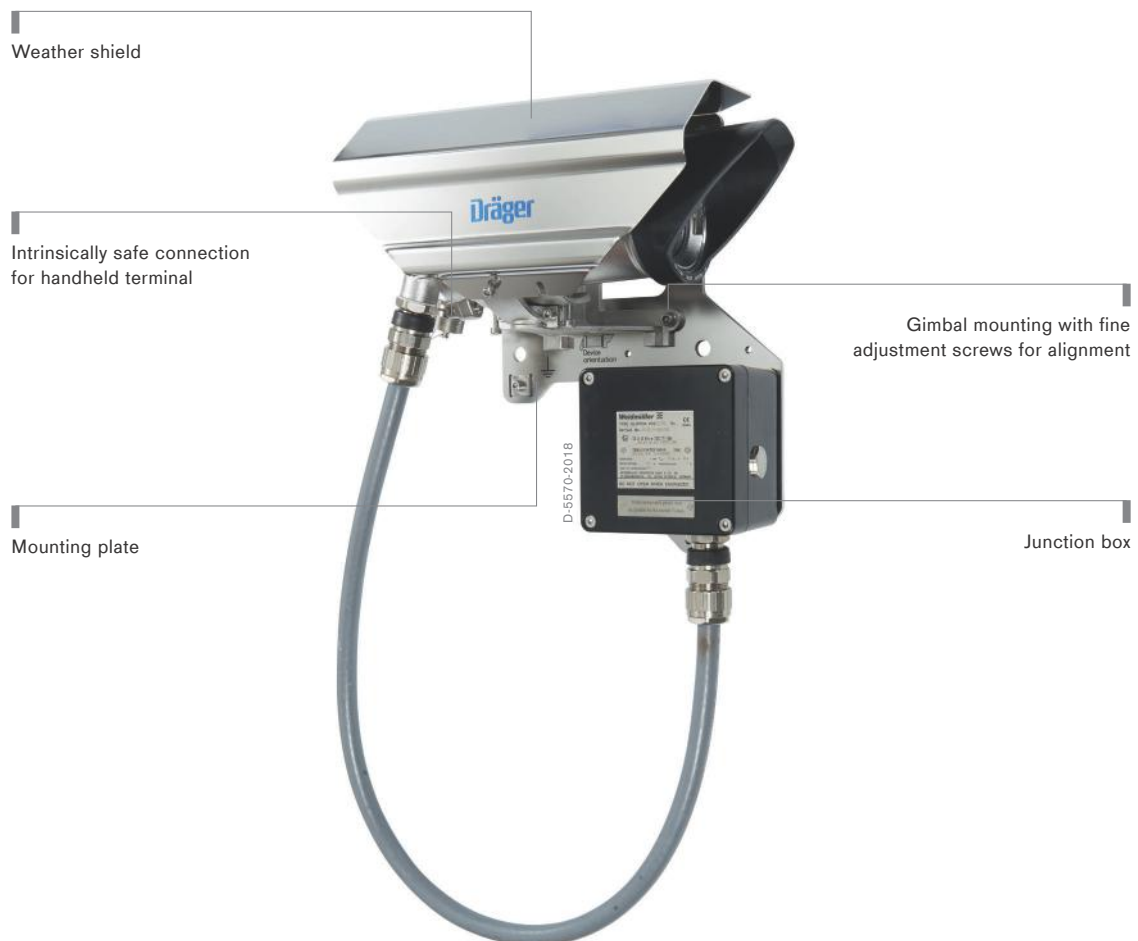


Dräger Pulsar 7000 Series Detection of flammable gases and vapours

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.



Benefits

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

Benefits

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.

Details



D-5570-2018

Dräger Pulsar 7000



D-5562-2018

Dräger Pulsar 7000 Heavy Duty



ST-3162-2003

Dräger Pulsar 7000 Duct Mount

System Components



D-6806-2016

Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable analysis system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the backward compatibility with the REGARD®.



D-1130-2010

Dräger REGARD® 3900 Series

The devices of the Dräger REGARD® 3900 series can be used as standalone controllers. You can configure up to 16 measuring channels. In addition, the modular setup enables you to customise the control units to the demands of your plant. You can also embed further features to existing alarms.

Accessories



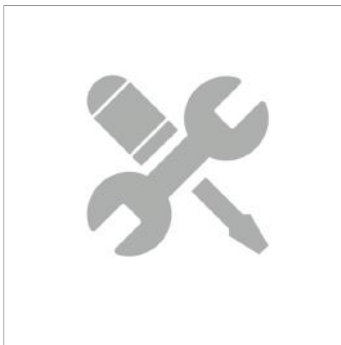
D-17794-2017

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.

Services

D-2331-2016



Product Service

Our product service provides support with different service packages – in our workshops or directly on your premises. Care, maintenance and servicing are crucial for safety and reliability – but careful maintenance and care are a must, even when it comes to commercial considerations. Preventive checks, ongoing care and use of original replacement parts improve the longevity of your investment.

D-2335-2016



Training

The Dräger Academy has shared its solid, practical knowledge for over 40 years. We hold more than 2,400 training courses each year, on a range of over 600 topics, with more than 110 authorised trainers. We equip your staff with practical knowledge and ensure that what they learn can be applied effectively, both day-to-day and, more importantly, whenever critical situations occur. We will be pleased to develop a customised training programme for you.

Related Products

ST-11659-2007



Dräger PIR 7000

The Dräger PIR 7000 is an explosion proof point infrared gas detector for continuous monitoring of flammable gases and vapours. With its stainless steel SS 316L enclosure and drift-free optics this detector is built for the harshest industrial environments, e.g. offshore installations.

Technical Data

Type	Explosion-proof open-path gas detector based on infrared absorption spectroscopy		
Gases	Wide range of hydrocarbons, including the alkane series from methane to hexane, propylene		
Measuring range	Min. 0 to 4 LEL m, max. 0 to 8 LEL m		
Gas category	IEC, NIOSH or PTB; selectable		
Factory calibration	Methane, propane or ethylene, selectable		
Operating range	4 to 60 m, 30 to 120 m or 100 to 200 m (distance between transmitter and receiver)		
Signal output	Analogue	Measuring	4 to 20 mA (source and sink)
		Pre-warning	3.5 mA (eg. dirty lens or misalignment), configurable
		Maintenance	3 mA
		Beam block warning	2 mA
	Digital	Faults	< 1 mA
		HART®7	
Power consumption	< 5 W receiver, < 9 W transmitter		
Operating voltage	18 to 32 VDC (24 VDC nominal)		
Response time t_{90}	< 2 s (under normal operating conditions when using the digital link)		
Skew tolerance	+/- 0.6°; +/- 1,6° with Tx S		
Ambient conditions	Temperature	-40 to + 60 °C, -40 to +140 °F	
	Pressure	800 to 1,100 hPa	
	Air humidity	0 to 100% rel. humidity, non-condensing	
Housing	Material	Stainless steel AISI 316L "Marine Grade"	
	Protection class	IP66/IP67	
	Dimensions (W x H x D, approx.)	430 x 670 x 170 mm, incl. cable bend with vertical mounting plate	
		735 x 410 x 170 mm, incl. cable bend with horizontal mounting plate	
	Weight (approx.)	9 kg (19.84 lbs), each transmitter and receiver incl. backplate and weather shield	
Approvals	ATEX / IECEx	Ex II 2(1) G Ex db [ia Ga] IIC T6/T5 Gb	
		Ex II 2(1) D Ex tb [ia Da] IIIC T80 °C/T95 °C Db	
		Tamb = -55 °C to +40 °C/+60 °C*	
	Performance approval	EN/IEC 60079-29-4	
		FM Class 6325 ANSI/ISA-12.13.04	
DNV GL	Classes: Temperatur D; Humidity B; Vibration A+C; EMC B; Enclosure D		
Safety Integrity Level	SIL 2 SC3 Certification by TÜV Nord (EN 61508)		

* -40 °C for Heavy Duty/Offshore model

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

Ordering Information

Dräger Pulsar 7000 Serie Ex e

Dräger Pulsar 7000 Tx S Range JB Ex e	68 51 700
Dräger Pulsar 7000 Tx L Range JB Ex e	68 51 701
Dräger Pulsar 7700 Rx S Range JB Ex e	68 51 702
Dräger Pulsar 7700 Rx L Range JB Ex e	68 51 703
Dräger Pulsar 7900 Rx S Range JB Ex e	68 51 704
Dräger Pulsar 7000 Tx S Range JB Ex e Ho	68 51 706
Dräger Pulsar 7000 Tx L Range JB Ex e Ho	68 51 707
Dräger Pulsar 7700 Rx S Range JB Ex e Ho	68 51 708
Dräger Pulsar 7900 Rx S Range JB Ex e Ho	68 51 709

Dräger Pulsar 7000 Serie Ex e – Offshore/Heavy Duty

Dräger Pulsar 7900 Rx S Range JB Ex e SS	68 51 712
Dräger Pulsar 7000 Tx S Range JB Ex e SS	68 51 718
Dräger Pulsar 7000 Tx L Range JB Ex e SS	68 51 719
Dräger Pulsar 7700 Rx S Range JB Ex e SS	68 51 720
Dräger Pulsar 7700 Rx L Range JB Ex e SS	68 51 721

Dräger Pulsar 7000 Serie Ex e – Duct Mount

Dräger Pulsar 7700 Duct Mount JB Ex e, complete	68 51 716
Dräger Pulsar 7000 Duct Mount Tx JB Ex e	68 51 530
Dräger Pulsar 7700 Duct Mount Rx JB Ex e	68 51 531

Accessories – Mounting

Kit pole mounting 2" / 50mm	23 07 003
Kit pole mounting 6" / 150mm	23 50 302
Kit mounting plate for duct mounting	23 50 450

Accessories – Commissioning, Maintenance and Configuration

Dräger PolySoft	83 23 405
Pulsar Interface Adapter (PIA)	68 51 565
Pulsar Interface Adapter Kit for Dräger Pulsar 7700	68 51 630
Pulsar Interface Adapter Kit for Dräger Pulsar 7700 Duct Mount	68 51 632
Pulsar Interface Adapter Kit for Dräger Pulsar 7900	68 51 631
Kit remote junction box	23 50 322
Gas test sheets for Dräger Pulsar 7700	23 50 521
Gas test sheets for Dräger Pulsar 7700 Duct Mount	23 50 451
Gas test sheets for Dräger Pulsar 7900	23 50 520
Attenuator plate AP800	23 50 339
Attenuator plate AP810	23 07 329
Lens cleaning fluid LCF01	23 50 291
Pulsar telescope for alignment	23 50 505
Test gas cell (Propane)	23 50 514
Test gas cell (Methane)	23 50 516
Test gas cell (Methane and Propane)	23 50 518

Notes

Not all products, features, or services are for sale in all countries.
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