

## Dräger REGARD®-1 Control System

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.



## Benefits

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### High flexibility

The Regard-1 can either be connected to a 4-20-mA transmitter or to Polytron-SE-Ex sensing heads. There are three alarm thresholds with flexible alarm analysis: rising or falling, latching or non-latching. The alarm status is displayed via three LEDs on the front. The LEDs will flash with a new alarm, they will light up continuously to display an acknowledged alarm situation, or go out if there is no alarm. The gas concentration is displayed continually on a large LC display. If the alarm thresholds are exceeded or if a fault occurs, the integrated audible alarm will sound. To raise the alarm for a transmitter or system fault, a failure relay is available which has been configured accordingly. During maintenance, the maintenance relay can be used to report this special status via a remote display.

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### Useful additions

The Regard-1 can be equipped with an optional TWA control module. This module enables the output of a TWA alarm as well as the output of the measured value and the alarm states via a digital interface. To ensure the operation of the Regard-1 during a power failure, two batteries of 1.2 Ah each can be inserted into the integrated battery compartment. Depending on the transmitter used, they will enable an operating time from 30 minutes up to two hours. The batteries are charged by the Regard-1.

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### Robust enclosure

The robust IP65 enclosure enables the installation of the control system at virtually any location within the Non-Ex range.

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### Certifications

In accordance with the ATEX directive, the system is certified to EN 61779-1/4/5 and EN 50104 for explosion monitoring and oxygen measuring and, therefore, also suitable for applications which require the measuring function for explosion protection (primary measure in accordance with EN 1127-1, paragraph 6). In addition, the system was also tested independently to EN 45544 for the monitoring of toxic gases.

## System Components



ST-11659-2007

### Dräger PIR® 7000

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.



ST-3812-2003

### Dräger Polytron® 7000

The Dräger Polytron® 7000 gas detector can satisfy all toxic gas and oxygen measurement applications on a single platform. It meets compliance requirements, as well as the high specification requirements of customized solutions.



D-49077-2012

### Dräger Flame 5000

In today's industrial workplaces, flame detection is essential for protecting both people and facilities. The Dräger Flame 5000 is an explosion-proof flame detector based on advanced color imaging technology. Each detector operates as a standalone unit and incorporates an integrated closed circuit television (CCTV) system, digital signal processing, and software algorithms to process live video images and interpret the characteristics of a flame.



ST-3811-2003

### Dräger Polytron® 3000

Continuous safety calls for nonstop gas monitoring. The Dräger Polytron® 3000 is an intrinsically safe gas detector for the continuous monitoring of more than 60 toxic gases and oxygen in ambient air. It is part of a new generation of gas detectors developed on a modular platform. The Polytron® 3000 communicates to the central control system via a 4 to 20 mA signal.

## System Components



### 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.

## 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



D-6806-2016

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### 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-2777-2009

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### 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.

## Technical Data

Single channel controller, housed in a rugged ABS enclosure for in- and outdoor applications

Power supply	110/240 VAC, 50/60 Hz	
Input	2/3-wire 4 to 20 mA transmitter or Dräger Polytron SE Ex measuring head	
Output	3 gas alarm relays, fault relay, inhibit relay	
	Remote acknowledgement	
Operation	4 to 20 mA (optional), RS 232 (optional)	
	One-button operation	
	Large LC-display, status LED's	
Battery buffer	Built-in buzzer	
	2 x 12 VDC, 1.2 Ah (optional)	
Ingress protection	IP 65, NEMA 4	
Dimensions	270 x 270 x 90 mm; 10.7" x 10.7" x 3.6" (H x W x D)	
Weight	2.5 kg; 5.5 lbs.	
Wiring	0.5 to 2.5 mm <sup>2</sup> ; AWG 20 to 14	
Ambient conditions	Temperature	0 to 55 °C; 32 to 130 °F
	Pressure	700 to 1,300 hPa; 20.7 to 38.4 inch Hg
	Humidity	0 to 100 % RH, non-condensing
Approvals	CE	Electromagnetic compatibility (directive 89/336/EEC)
		Low voltage directive (directive 73/23/EEC)
	ATEX	II (2) G

## Ordering Information

Dräger REGARD®-1	4 to 20 mA	42 08 585
Dräger REGARD®-1	SE Ex	42 08 600
Rechargeable battery kit		42 08 586
Options board	(4 to 20 mA repeater, RS 232, TWA alarm relays)	42 08 583
Display board with datalogger		42 08 636

## Notes

## Notes

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