

Dräger REGARD® 3900 Control System

The Dräger REGARD® 3900 is a standalone, self contained control system for the detection of Toxic, Oxygen 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.



Benefits

Flexible design

The Regard 3900 can be equipped with up to four 4 - 20 mA input cards. Each input card can be connected to up to four gas detectors, either 2 or 3 wire, giving a maximum of 16 gas detectors per each Regard 3900. Each input module is equipped with three alarm relays.

These relays are designated as common alarms for the corresponding input card for "Fault", "1st alarm" and "2nd alarm". The 1st and 2nd alarm relays are fully configurable and can be set up as rising or falling and latching or non-latching.

In addition, the Regard 3900 can be equipped with up to two relay modules. Each relay module has eight additional relays.

In accordance with the ATEX directive, the first relay is always configured as a fault relay and cannot be changed. The other seven relays can be configured as individual, common or voting alarms. They can either operate as normally open or normally closed relays.

The alarm relays are acknowledged by operating a button at the front of the control unit.

Quick and easy configuration

The Config 3900 configuration software enables quick and easy configuration via a laptop or a PC. With new installations, the configuration can initially be carried out online and then loaded during commissioning. During maintenance the system configuration can be downloaded from the device to a PC for checking. The appropriate connection cable and the required software are available as accessories.

Robust enclosure

The robust IP65 enclosure enables the installation of the control system at virtually any location within a safe area.

System Components

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.

ST-3812-2003



Dräger Polytron® 7000

The Dräger Polytron® 7000 is a gas detector that can satisfy many toxic and oxygen gas measurement applications on a single platform. It meets the requirements of the compliance market as well as the high specification requirements of customised solutions.

D-11168-2011



Dräger PEX 3000

The transmitter Dräger PEX 3000 detects flammable gases and vapours in concentrations below their lower explosive limit. Its DD-sensor provides a long-term stable measuring signal and responds to gas within a few seconds.

D-49077-2012



Dräger Flame 5000

The Dräger Flame 5000 is an imaging based explosion proof flame detector. This visual flame detection system uses digital image processing and advanced algorithms to process and interpret flame characteristics. This principle offers an extended field of view and fewer false alarms. Each detector is equipped with a colour CCTV camera.

Related Products



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®.



ST-335-2004

Dräger REGARD®-1

The Dräger REGARD®-1 is a standalone, self contained single channel control system for the detection of Toxic, Oxygen and Ex hazards. 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.

Technical Data

Type	Control unit for location in a non-hazardous area	
Gas and ranges	Toxic, oxygen and combustible gases with user definable measuring ranges. Refer to transmitter type for ranges, name and engineering units. All configurations by Laptop computer.	
Inputs	2 or 3 wire 4-20 mA transmitters Remote reset 24 VDC supply	
Outputs	Alarm 1, Alarm 2 and Fault as standard Warning and Inhibit relays on optional relay board Single, common or voted alarms on optional relay board Acknowledgeable relays on optional relay board Repeat 4-20 mA via optional Repeat Board	
Display	4 line, 40 character back-lit LCD Active, Fault, Alarm 1 and Alarm 2 LED's per input DC and AC power LED's Inhibit LED	
Power supply	External	24 VDC, or
	Internal	2.5 A, 5 A or 10 A power supply @ 110/240 VAC
Dimensions (approx.)	420 x 300 x 190 mm / 16.5" x 11.8" x 7.5" (W x H x D)	
Weight (approx.)	3 kg / 6.6 lbs, depending upon installed power supply	
Ambient conditions	Temperature	0 to 55 °C / 32 to 130 °F
	Pressure	700 to 1300 hPa / 20.6 to 38.3 inch Hg
	Humidity	0 to 100 %RH, non condensing
Ingress Protection	IP 65, ABS – OV material of construction	
Approvals	ATEX	II (2)G Acc. to Directive 94/9/EC
	CE-mark	Electromagnetic compatibility (directive 89/336/EEC) Low voltage directive (72/23/EEC, 93/68/EEC)

Ordering Information

Dräger REGARD 3900 Basic Unit	42 08 780
Dräger REGARD 3900 4-20 Module	42 08 782
Dräger REGARD 3900 Relay Module	42 08 784
Dräger REGARD 3900 RS232 Interface	42 08 785
Dräger REGARD 3900 4-20mA Repeat Output Board	42 08 797

Notes

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