

# Dräger REGARD® 3920 Control System

The Dräger REGARD® 3920 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

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### Dräger REGARD 3920

Based upon the Dräger REGARD 3900 the 3920 is configured via on board pushbuttons and is capable of housing both 4-20 mA input boards and relay output boards in a robust IP65 enclosure. The Dräger REGARD 3920 is a modular system suitable for the most stringent of budgets.

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### Analog input board

Each analog input board caters for one to four, 2 or 3 wire, 4-20 mA transmitters. Each transmitter connects to dedicated field terminals. Up to a total of four analogue input boards can be installed in to a single Dräger REGARD 3920, thus giving a maximum input count of sixteen transmitters. Each individual input board is populated with three relays. These relays offer common Fault, Alarm 1 and Alarm 2 outputs. The two alarm levels are fully configurable and can be set as rising or falling, latching or non-latching. To differentiate between each input board a simple mechanical link is required.

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### Relay output board

Each relay output board is populated with eight additional SPCO relays. Relay 1 on each relay board is a dedicated Fault relay and cannot be reconfigured. The remaining seven relays can be configured as Single, Common, Voting, Inhibit or Nonoperational. An additional Alarm 3 level is offered by the relay board along with a second Fault threshold. All configurable relays can be Rising/Falling, Latching/Non Latching and Normally Energised/Energised on alarm. Alarm relays are acknowledged via the push button located on the front panel of the instrument housing. A maximum of two relay boards can be installed in a single Dräger REGARD 3920 control system.

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### Repeat output board

Each 4-20 mA output board repeats the signal of up to eight inputs. This allows indication or recording of gas levels by other units. A maximum of two analog output boards can be installed in a single Dräger REGARD 3920 control system.

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### System configuration

The Dräger REGARD 3920 is fully configurable via pushbuttons located on the front panel. The configuration menu allows quick and easy set-up. All calibration routines, zero and span are performed using the configuration menu.

## 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.

## 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	Large graphic display, 34 x 62 mm, 64 x 128 pixel 1.3" x 2.4" Menu structure and messages in real text, 3 button navigation 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	IP65, ABS—OV material of construction	
Approvals	ATEX	IEx II(2)G
	SIL	SIL 1
	CE-mark	Electromagnetic compatibility (directive 89/336/EEC) Low voltage directive (72/23/EEC, 93/68/EEC)

## Ordering Information

Dräger REGARD® 3910	Order Code
Dräger REGARD® 3920 Basic Unit	42 08 850
Dräger REGARD® 3900/3910/3920 4-20 Module	42 08 782
Dräger REGARD® 3900/3910/3920 Relay Module	42 08 784
Dräger REGARD® 3900/3910/3920 4-20-mA Repeat Output Board	42 08 797

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