

## Dräger REGARD® 2400 and REGARD® 2410 Control System

Dräger REGARD® 2400 and 2410 are flexible small control units for detection of toxic gases and oxygen as well as combustible gases and vapours. Combined with the Dräger transmitters or sensing heads Dräger REGARD® 2400 or 2410 forms a low-maintenance gas detection system for reliable protection.



## Benefits

### Versions and configuration

Up to four transmitters can be connected to the REGARD 2400 and REGARD 2410 control systems. The REGARD 2400 comes with an enclosure with integral power supply unit and can be mounted directly to a wall. The REGARD 2410 has been designed for economical mounting on DIN rails in existing switch or wall cabinets. Both versions have four integrated relays which are assigned to the two gas alarms, audible warning and fault condition. In addition to the four inputs for transmitters, the REGARD 2400/2410 also provide two digital inputs. This can be used for remote acknowledgement for example. Both devices have ATEX approval.

### Easy to operate

The configuration of the REGARD 2400/2410 is carried out via a laptop or a PC. The appropriate connection cable and the required software are available as accessories.

### Flexible extensions

Via the internal Modbus interface, the REGARD 2400 and 2410 can be connected with external modules such as an input or output module or one or several relay modules.

## 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.

## System Components



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-1115B-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.



ST-3800-2005

### Dräger Polytron® 7500

The Dräger Polytron® 7500 is a gas detector for nitrogen trifluoride (NF<sub>3</sub>), fluorinated and chlorinated hydrocarbons in ambient air.

## Related Products



### Dräger REGARD® 3900

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.



### 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.



### 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®.

## Technical Data

Central unit	Independent 4-channel wall-mounted (2400) or rail-mounted (2410) control unit in accordance with DIN EN 50022	
Power supply	24 VDC +/- 10 % (2410)	
	24 VDC / 110 to 230 VAC 50 to 60 Hz (2400)	
Inputs	2-wire/3-wire 4 to 20 mA transmitter or Dräger Polytron SE Ex sensing heads via signal converter (optional)	
Outputs	Potential-free relay contacts of the 2 gas alarm relays plus one acoustic alarm relay and one failure relay each for 250 VAC, 2 A (2400 DPCO and 2410 SPCO)	
Ambient conditions	Temperature	- 20 to + 60 °C
	Atmospheric pressure	700 to 1300 hPa
	Atmospheric humidity	10 to 90 %, non-condensing
User interface	3-pushbutton operation	
	Dot-matrix display, LEDs	
	RS 232 for configuration software	
	Modbus interface	
Dimensions	Dräger REGARD® 2410	105 x 86 x 72 mm (W x H x D)
	Dräger REGARD® 2400	185 x 213 x 118 mm (W x H x D)
Ingress protection	Dräger REGARD® 2410	IP 20
	Dräger REGARD® 2400	IP54
Approvals		
ATEX	Ex II (2)G, TPS 14 ATEX 1 672 X According to EN 60079-0:2012, EN 60079-0/A11:2013, EN 60079-29-1:2007, EN 50271:2010 and EN 50104:2010	
CE markings	Electromagnetic Compatibility (Directive 2014/30/EU; EN 50270:2006) Low Voltage (Directive 2014/35/EU; EN 61010-1:2010)	
Functional Safety	SIL 1	

## Ordering Information

Dräger REGARD® 2410	SC 00 011
Dräger REGARD® 2400	SC 00 014
Internal converter module SE Ex (only Dräger REGARD® 2400), one required per SE Ex channel	SC 00 016
Converter module SE Ex, one required per SE Ex channel	36 03 560
Configuration set	SC 00 040
Input-Output module	SC 00 018
Relay module	SC 00 019
Power Supply 2.5A, DIN Rail Mounting	42 08 745
Power Supply 5A, DIN Rail Mounting	42 08 746
Power Supply 8A, DIN Rail Mounting	42 08 747

## Notes

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