

Dräger REGARD-1 Control System

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.

The robust IP 65 housing allows the control system to be installed in almost any location, excluding hazardous, classified areas¹. Developed with an innovative modular design ensures that the entire system is suitable for the most stringent of budgets.

For those application where primary protection is required the Dräger REGARD-1 control system is fully certified under the ATEX Directive against EN 61779-1/4/5 and EN 50104, for Ex detection and Oxygen detection respectively. Independent testing against EN 45544 is also achieved for Toxic detection.

When installed, the Dräger REGARD-1 control system offers three gas alarm thresholds which are fully flexible in the way of rising or falling and latching or non-latching. Supporting the alarm relays are high intensity LEDs on the front panel which either flash to show a new alarm condition, remain steady to show an acknowledged alarm condition or extinguish to show a non alarm condition. The gas concentration is continuously displayed on a large LCD display. An internal buzzer sounds when a gas or fault condition exists to draw the attention of local personnel. To support either a transmitter

or control system fault a fail-safe fault relay is provided. A high intensity LED supports the fault relay and flashes to show a new fault condition, remains steady to show an acknowledged fault condition or extinguishes to show a healthy condition.

The Dräger REGARD-1 control system offers additional input/output modules which offer a repeat 4 to 20 mA signal, TWA alarm threshold coupled with a TWA alarm relay and a data/event logger². During a maintenance or service routine an inhibit relay is provided to allow remote indication that the gas detection control system is off-line.

The enclosure of the Dräger REGARD-1 control system is designed to house two 1.2 AH batteries which support the control system during a mains power failure. The duration of the battery back-up is dependant on the type of transmitter used and is estimated between 30 minutes and 2 hours in a non-alarm condition.

¹ An area where there is a risk of explosion.

² Display board V2.0 is required for data logging.



ST-481-2004



ST-335-2004

Dräger REGARD-1

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
	4 to 20 mA (optional), RS 232 (optional)
Operation	One-button operation
	Large LC-display, status LED's
	Built-in buzzer
Battery buffer	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 ² ; AWG 20 to 14
Ambient conditions	Temperature 0 to 55 °C; 32 to 130 °F
	Pressure 700 to 1300 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

ORDER 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)	08 583
Display board with datalogger		42 08 636



ETA Associates

119 Foster Street, Bldg #6 • Peabody, MA 01960

Tel: (978) 532-1330 • Fax: (978) 532 7325 • www.ETAassociates.com • eta@ETAassociates.com