

## PolyGard® Digital Door-Entrance-Module DEM-03

### DESCRIPTION

Door Entrance Module based on state-of-the-art micro-technology for the continuous monitoring of the alarm levels of the gas warning systems DGC-05 and DGC-03.

The DEM-03 can monitor the alarm situations of the DGC-03 and DGC-05 systems via the RS-485 bus. Up to 30 relay information bits can be used via the system bus to control alarm displays and warning outputs.

Configuration can be done via an internal keypad to get level and project independent structure without specific programming knowledge.

### APPLICATION

The DEM-03 is especially designed for the use in underground garages and multi-storey car parks or for room application e.g. laboratories.

### FEATURES

- Especially suitable for monitoring underground garages and car parks
- Logical menu structure in different languages
- Simple, fast commissioning due to pre-configuration with standard parameters
- All alarm relays can be used either for signal horn or signal lamp or warning text or local relays (max 2)
- Modular design (plug-in technology)
- Serial interface RS 485
- IP 65 version
- Enclosure fire-resistant according to UL 94V2
- Integrated warning buzzer (option) with reset function internal/external
- 230 VAC power supply (option)
- LED flashlight (option)
- Local relays (2) (option)
- Heating (option)



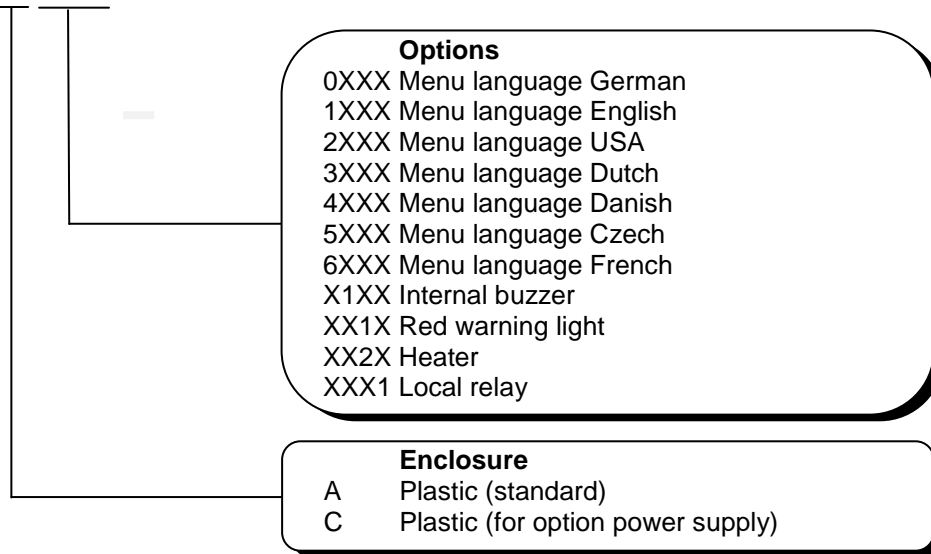
Enclosure with option

## SPECIFICATIONS

|  |   |
|--|---|
| <b>Electrical</b>  |   |
| Power supply   | 18 - 28 VDC reverse polarity protected                                  |
| Power consumption (basic unit without options)                   | 100 mA, max. (2,5 VA)   |
| <b>Visualisation</b>   |   |
| Display  | Two lines, 16 characters each   |
| Status LED (4)   | Normal operation - Fault - Alarm1 - Alarm 2                             |
| Operation  | 4 push-buttons – menu-driven  |
| <b>Serial interface</b>  |   |
| Transceiver  | RS 485 / 19200 Baud   |
| <b>Operating environment</b>                                     |   |
| Humidity   | 15 – 90 % RH non-condensing   |
| Working temperature  | -10 °C to + 50 °C (14 °F to 122 °F)                                     |
| Storage temperature  | 5 °C to 30 °C (41 °F to 86 °F)  |
| Pressure range   | Atmospheric ± 30 %  |
| <b>Physical</b>  |   |
| Enclosure type A (Standard) and type C (for option power supply) | Polycarbonate   |
| Flammability   | UL 94 V2  |
| Enclosure colour   | RAL 7032 (light grey)   |
| Dimensions (W x H x D) type A                                    | 94 x 130 x 57 mm (3.7 x 5.12 x 2.24 inch.)                              |
| type C   | 130 x 130 x 75 mm (5.12 x 5.12 x 2.95 inch.)                            |
| Weight   | Approx. 0.6 kg (1.323 lbs.)   |
| Protection class   | IP 65   |
| Installation   | Wall mounting   |
| Cable entry  | Standard 1 x M 20   |
| Wire connection  | Screw type terminal, min. 0.25, max. 2.5 mm <sup>2</sup> (24 to 14 AWG) |
| <b>Guidelines</b>  |   |
|  | EMC Directive 2004/108/EC   |
|  | Low voltage directive 2006/95/EC  |
|  | VDI 2053  |
|  | CE  |
| <b>Warranty</b>  | 1 year on material  |
| <b>Options</b>   |   |
| <b>Buzzer</b>  |   |
| Acoustic pressure  | 83 dB (A) (distance 200 mm/ 0.6 ft )                                    |
| Frequency  | 2300 Hz   |
| <b>Local relay</b>   |   |
| Relay 1  | 30 VAC/DC 0.5 A, potential-free, SPDT                                   |
| Relay 2  | 30 VAC/DC 0.5 A, potential-free, SPNO/SPNC                              |
| <b>Power supply 230 VAC</b>                                      |   |
|  | 90 -230 VAC 50/60 Hz  |
| <b>LED warning light, red</b>                                    |   |
| Power supply   | 18 – 28 VDC   |
| Power consumption  | 45 mA, max. (1.2 VA)  |
| Protection class   | IP 65   |
| <b>Heating</b>   |   |
| Temperature controlled   | 3 °C ±2°C (37.5 °F ± 3.6°F)   |
| Ambient temperature  | - 30 °C (- 22 °F)   |
| Power supply   | 18 - 28 VDC   |
| Power consumption  | 0.3 A; 7.5 VA   |

## ORDERING INFORMATION\*

DEM-03-A-XXXX



\* DEM-Modules are only available in combination with orders of MSR-Controllers

**Example:** Door Entrance Module DEM-03, standard plastic housing, language English, internal buzzer

**Ordering number: DEM-03-A-1100**

## CONNECTING DIAGRAM

