

# μ-Gard®

CO  
4 - 20 mA  
Digital Gas Controller  
RS  
485 (Modbus).



MD

. 2  
NO<sub>2</sub> and LPG,

(UL certification 2075)

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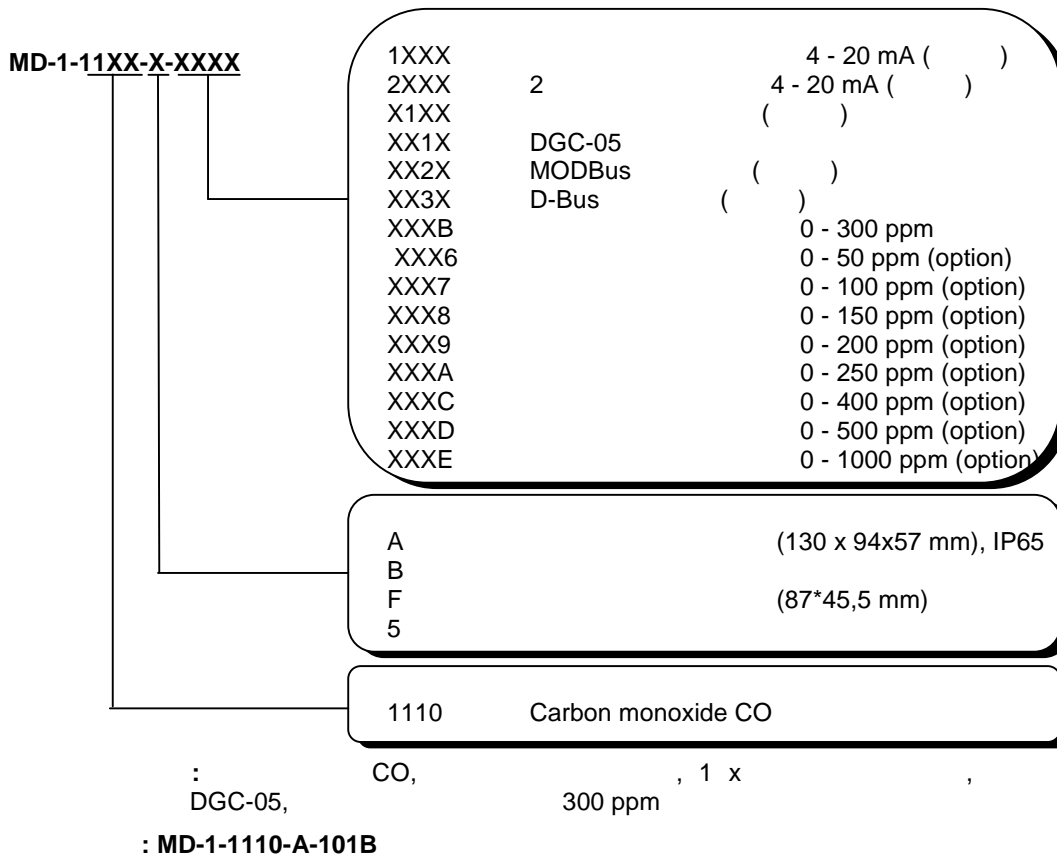
4- ( )  
3- ( )  
4 - 20 mA ( )

# GAS ALARM SYSTEMS

|   |  |
|---|--|
|   | 15 - 28 VDC                              |
|   | 10 mA (0,24 W)                           |
| ( , )   | 4 to 20 mA, 200 Ω                        |
|   | 24 VDC, max. charge 50 mA                |
|   | Carbon monoxide (CO)                     |
|   | 0 – 300 ppm                              |
|   | ± 3 ppm                                  |
|   | ± 3 % of reading                         |
|   | < 5% signal loss / year                  |
|   | t <sub>90</sub> ≤ 50 s                   |
|   | 5  |
|   | 1.5 to 1.8 m (5 to 6 ft.)                |
|   | 465 m <sup>2</sup> to 930 m <sup>2</sup> |
|   | *  |
|   | (ppm) (ppm CO)                           |
| Acetone, C <sub>3</sub> H <sub>6</sub> O      | 1000 0                                   |
| Acetylene, C <sub>2</sub> H <sub>2</sub>      | 40 80                                    |
| Ammonia, NH <sub>3</sub>                      | 100 0                                    |
| Chlorine, Cl <sub>2</sub>                     | 2 0                                      |
| Ethanol, C <sub>2</sub> H <sub>5</sub> OH     | 2000 5                                   |
| Iso Propanol, C <sub>3</sub> H <sub>8</sub> O | 200 0                                    |
| Carbon dioxide, CO <sub>2</sub>               | 5000 0                                   |
| Nitrogen dioxide, NO <sub>2</sub>             | 50 - 1,0                                 |
| Nitrogen oxide, NO                            | 50 8                                     |
| Sulphur dioxide, SO <sub>2</sub>              | 50 < 0,5                                 |
| Hydrogen, H <sub>2</sub>                      | 100 20                                   |
| -   | 15 – 90 % RH, non condensing             |
| -   | 0 – 99 % RH, not condensing              |
| -   | -10 °C to + 50 °C (14 °F to 122 °F)      |
| -   | -20 °C to + 50 °C (-4 °F to 122 °F)      |
|   | ±10%                                     |
|   | 5 °C to + 40 °C (41 °F to 104 °F)        |
|   | 6  |
|   | RS 485 / 19200 Baud                      |

# GAS ALARM SYSTEMS

|                           | Type A   | Type 5  |
|---------------------------|--|---|
|                           | UL 94 V2   | V2A, 1mm, material 1.4301                       |
| *                         | RAL 7032 ( )   | , brushed                                       |
| (W x H x D)               | 94 x 130 x 57 mm<br>(3.7 x 5.12 x 2.24 inch.)                            | 113 x 135 x 45 mm<br>(4.45 x 5.31 x 1.77 inch.) |
|                           | Approx. 0.3 kg (0.66 lbs.)   | Approx. 0.5 kg (1.1 lbs.)                       |
|                           | IP 65  | IP 55   |
|                           | 1 x M 20   |   |
|                           | , min. 0.25 mm <sup>2</sup> (24 AWG) max. 2.5 mm <sup>2</sup> (14 AWG)   |   |
| <b>Approvals/Listings</b> | EMC Directive 2004/108/EEC   |   |
|                           | CE   |   |
|                           | VDI 2053, Air Treatment Systems for Garages and Tunnels (in preparation) |   |
|                           | UL recognized  |   |
|                           | 1 ( )  |   |



Transmitter  
MD-1-1110

|   |                       |
|---|-----------------------|
| 6 | Analog_Inp_2 (option) |
| 5 | Analog_Inp_1 (option) |
| 4 | Bus_B                 |
| 3 | Bus_A                 |
| 2 | 0 VDC                 |
| 1 | 24 VDC_Inp            |