

# Technical specifications: CC28 / CC28 D / CC28 DA



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|--|---|--|
| <b>Measuring principle</b>                 | Catalytic combustion (CC): for flammable gases and vapors (up to 100%LEL) |  |
| <b>Measuring gas supply</b>                | Diffusion or via flow adapter (flow rate $0.5 \pm 0.1$ l/min)             |  |
| <b>Expected average life of the sensor</b> | sensor dependent  |  |
| <b>Response time</b>                       | sensor dependent  |  |
| <b>Update time</b>                         | 1s  |  |
| <b>Alerting</b>                            | only with CC28 DA visual and audible (90dB @ 10cm)                        |  |
| <b>Standby delay</b>                       | <120s (Self-tests and run-in phase of the sensors)                        |  |
| <b>Power supply</b>                        | Supply voltage:   | 15...30V DC  |
|  | Maximum supply current:   | 150mA  |
|  | Maximum fault voltage:  | 250VAC bzw. 45VDC (see type label)   |
|  | Output current:   | 4...20mA (max. load 150 Ohm)   |
| <b>Climatic conditions</b>                 | Short-term storage temperature:   | -25...+60°C  |
|  | Recommended storage temperature:  | 0...+30°C  |
|  | Operational temperature (ambient):  | -20...+50°C for use in Ex-hazardous areas<br>-25...+55°C for use in non-Ex areas<br>see Sensor specification in case of using of MK217 |
|  | Humidity range:   | 5...90% r.h.   |
|  | Air pressure range:   | 80...120kPa  |
|  | Flow rate:  | 0...6m/s (>3m/s with wind protection)  |
| <b>Housing</b>                             | Stability:  | Protect the casing against very hard impacts (> 4 J)   |
|  | Material:   | anti-static plastic  |
|  | Dimensions:   | 100 x 167,5 x 55 mm (W x H x D) (H with sensor: 193 mm)  |
|  | Weight:   | approx. 800 g (with Display)   |
|  | Protection class:   | IP64   |
|  | Cable connection:   | screwing M16x1,5 max. cross section 3 x 1,5 mm <sup>2</sup>  |
|  | Cable type and length:  | LIYCY 3x0,75 mm <sup>2</sup> up to 200 m or LIYCY 3x1,5 mm <sup>2</sup> up to 1000 m   |
| <b>Approvals / Tests</b>                   | Markings and ignition protection types:                                   | ⊕ II 2G Ex demb [ib] IIC T4 Gb -20°C ≤ Ta ≤ +50°C<br>CE 0158   |
|  | EU Type Examination Certificate:  | BVS 04 ATEX E 132 X (electrical Ex-Protection)   |
|  | EU Type Examination Certificate:  | BVS 05 ATEX G 001 X (measuring function)   |
|  | Electromagnetic compability:  | DIN EN 50270 Interference emission: Type class I<br>Interference immunity: Type class II   |