



### Technical Data

|                               |   |
|-------------------------------|---|
| <b>Electrical</b>             | 110/230Vac or 24Vac/dc  |
| <b>Option battery pack</b>    | Supply duration 60 minutes  |
| <b>Analog inputs (max 20)</b> | 4 to 20mA, overload- and short-circuitprotected, max load 500ohm  |
| <b>Power supply analogue</b>  | 24Vdc max, 50mA/channel   |
| <b>Power supply digital</b>   | via repeater  |
| <b>Analogue output max 10</b> | 4 to 20mA, overload- and short-circuit-protected, max load 500ohm |
| <b>Alarm relay (max 25)</b>   | 250Vac, 5A, potential-free, SPDT                                  |
| <b>Failure relay (1)</b>      | 250Vac, 5A,potential-free, SPDT                                   |
| <b>Option buzzer</b>          |   |
| acoustic pressure             | 87db (distance 1000mm)  |
| frequency                     | 3,5kHz  |
| <b>DisplayLCD</b>             | Two lines, each 16 characters, illumination                       |
| <b>Status LED</b>             | Red=StatusAlarm, Yellow = Failure                                 |
| <b>Operation</b>              | 6 push-buttons  |
| <b>Gases External transm.</b> | CO, O2, NO2, NH3, Methane, Propane, LPG, Freons                   |
| <b>Humidity</b>               | 15-95% RH non-condensing  |
| <b>Working temperature</b>    | -5C to + 40C  |
| <b>Protection Class</b>       | IP40  |
| <b>Weight</b>                 |   |
| CDA-S                         | 2,7 kg  |
| CDA-M                         | 4,0 kg  |
| CDA-L                         | 6,0 kg  |

These products meet the CE-approval

### Features

- Up to 20 analogue inputs, 4 to 20mA
- Suitable for monitoring CO, NO, NO2, NH3, O2, Methane, Propane and Refrigerant Gases
- Simple and comfortable commissioning due to configuration with standard parameter
- Logical system menu
- Flexible configuration by programmable parameters and set points
- Five adjustable alarm thresholds for each channel
- Up to 25 alarm/ failure relays with SPDT, potential-free, max 250Vac, 5A
- 2 until up to max. 10 analogue outputs, 4 to 20mA
- Shapely, durable housing
- Power fail flashing light (optional)
- Emergency power supply integrated (optional)
- Integrated buzzer (optional)
- Extension of analogue inputs and alarm relays by extension modul PE
- Simple addressing by coding switch (EP)

### Description

Gas measuring controller series for continuous monitoring of gases.

The Application Controller can monitor up to 20 analogue gas transmitters with 4 to 20mA signal.

For activating the alarm up to 25 relays with changeover contacts are available.

The free adjustable parameters and alarm threshold enable a very flexible use in the gas measuring technique.

Simple and comfortable commissioning is granted by the factory adjusted parameters.

The Gas Controller series is equipped with a self monitoring system, detection of short circuits and wire breaks and a power failure alarm.

### Ordering Codes

|                   |   |
|-------------------|---|
| <b>CDA-S</b>      | 4 analogue measuring points, 5 digital output         |
| <b>CDA-M</b>      | 4(12) anal. measuring points, 5(15) digital output    |
| <b>CDA-L</b>      | 4 (20)analogue measuring points, 5(25) digital output |
| <b>CDA-EP-4-5</b> | Expansion module 4AI and 5DO+6WU                      |
| <b>CDA-EP-4-0</b> | Expansion module 4AI and 6WU                          |
| <b>CDA-Akku 1</b> | Battery Pack, bridging time 1h, need 1AI,1DO          |
| <b>CDA-Akku 2</b> | Battery Pack, bridging time 7,2h, need 1AI,1DO        |
| <b>CDA-NBL</b>    | Power Failure Flashing Light                          |

**Warning devices** See special datasheet

**Warning signs** See special datasheet

### Application

The analogue/ digital controller is used for monitoring of gases and vapours.

It is suitable for a wide range of commercial and industrial applications.

Due to many free configurable parameters and alarm thresholds the controller is suitable for various applications in the range of gas measurement and monitoring.

### Connection Diagram

