

Control Unit Module

# Sigma MOD AO

Product code: PW-036-A



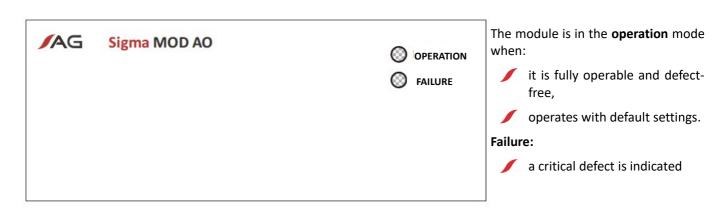




#### Information about the product

Sigma MOD AO is a device designed for collaboration with gas detectors and other associated appliances to make up an overall system Sigma Gas developed to provide gas safety on the supervised area. Integration of gas monitoring devices with comprehensive automation and control systems deployed in existing industrial and other facilities is frequently carried out by means of current loops with 4 --20 mA signals. Therefore there is a need to set up an interface between the Sigma Gas system that uses digital transmission of information on one side and existing systems of field automation with the current loop 4 - 20 mA to enable easy combining of the both systems. It is the task that is entrusted to the Sigma MOD AO module described in this leaflet.

#### User interface





### **Electrical interface**

| GND   | + | GND | В    | Α |
|-------|---|-----|------|---|
| Power |   |     | SBUS |   |

| Output 1 |   | Output 2 |   |   | Output 3 |   |   |   |
|----------|---|----------|---|---|----------|---|---|---|
| +        | S | -        | + | S | -        | + | S | - |

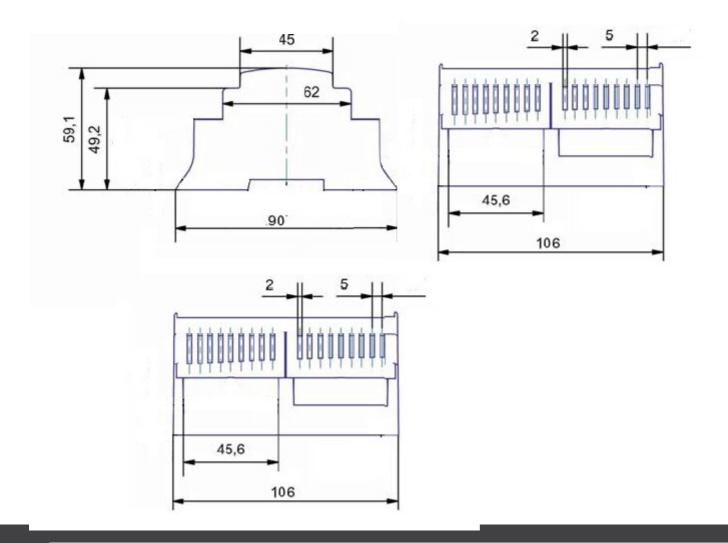
| NC       | NO | СОМ | NC | NO    | COM |
|----------|----|-----|----|-------|-----|
| Output 8 |    |     | 0  | utput | 7   |

| Output 4 |   | Output 5 |   |   | Output 6 |   |   |   |
|----------|---|----------|---|---|----------|---|---|---|
| +        | S | -        | + | S | -        | + | S | - |

| No. | Name     | Pin | Description   |
|-----|----------|-----|---|
|     | Power    |     | Device power supply port  |
| 1   |          | GND | Negative. Both "GND" terminals are internally connected                           |
|     | supply + |     | Positive. Both "+" terminals are internally connected                             |
|     |          |     | System communication port. Used for data exchange between devices in Sigma system |
| 2   | SBUS     | Α   | Singal line A   |
| -   | В        |     | Signal line B   |
|     |          | GND | Ground. Both "GND" terminals are internally connected                             |

| No. | Name         | Pin                            | Description                   |
|-----|--------------|--------------------------------|-------------------------------|
|     |              |                                | Communication port            |
|     | Output 1 ÷ 8 | +                              | Gas detector input – positive |
| 3   |              | Current input of gas detectors |                               |
|     |              | -                              | Gas detector input – negative |

### **Dimension**



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## **Technical specification**

| Power supply  Voltage Vcc Power  | 10 – 30 V DC<br>10 W   |                                    |  |  |  |
|--|--|------------------------------------|--|--|--|
| Environment  | In operation   | Storage                            |  |  |  |
| <ul> <li>Ambient temperatures</li> <li>Humidity</li> <li>Pressure</li> <li>PH</li> </ul> | 0 - +50 °C<br>10 - 80% long<br>term<br>0 - 90% short<br>term<br>1013± 10% hPa<br>5,5 ÷ 7 | 0 ÷ 50 °C<br>30 ÷ 90% long<br>term |  |  |  |
| IP   | IP20   |                                    |  |  |  |
| Analog output parameters  • R <sub>OBC_MAX</sub>   | 750 kΩ   |                                    |  |  |  |
| Digital input parameters  R <sub>IN</sub> Inactive  Active                               | 10 kΩ<br>0 – 1 V<br>10 – 30 V<br>any polarisation<br>whichever polariza                  | ntion > 1s                         |  |  |  |

| Digital communication parameters  Electric standard  Communication protocol | RS - 485<br>Sigma BUS  |
|---|--|
| Integrated signalling equipment (visual)                                    | LED indicator  |
| Cable glands (cable diameter range)   | 1 – 2 mm² (cable lugs 2 x 1 mm² or 2 x 0.75 mm² should be used for double wires) |
| Enclosure material  | Self – extinguishing ABS / PC  |
| Weight  | 0,2 kg   |
| Lifetime  | 10 years   |
| Mounting  | On DIN-35 / TS35   |

## **Product marking**

| Product code | Device                           |
|--------------|----------------------------------|
| PW-036-A     | Control Unit Module Sigma MOD AO |





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