

Standalone MONOline 141

for monitoring of NH₃



Features

- The MONOline monitor displays the detector gas concentration with name and alarm status
- The MONOline is factory calibrated and ready to use. Other measuring ranges are available on request
- 24VDC or 230VAC power supply
- Internal sounder alarm
- Clearly visible flashing LED beacon alarm
- Alarm status clearly visible on the OLED-Display
- 3 internal relays available to activate ventilation fans or alarming units
- Different relay functions programmable (Reset manual or automatic, NO/NC) and alarm thresholds by magnet pen
- Different relay functions programmable (Reset manual or automatic, NO/NC) and alarm thresholds by magnet pen
- Electrochemical sensor technology with simple concept for replacing a sensor
- Different relay functions programmable (Reset manual or automatic, NO/NC) and alarm thresholds by magnet pen
- Different relay functions programmable (Reset manual or automatic, NO/NC) and alarm thresholds by magnet pen
- integrated MODBUS RTU interface
- Connector for remote RESET
- Robust IP 65 enclosure
- Product has been developed by KIMESSA and is manufactured in Switzerland

Standalone MONOline 141

| | |
|-------------------|--------------------------------------|
| Gas: | Ammonia |
| Gas formula: | NH ₃ |
| Alarm thresholds: | 2 free programmable per gas detector |
| Warranty: | 12 month warranty |
| Position: | mounting at ceiling |

Sensor specifications

| | |
|--------------------------------|---|
| Measurement principle: | Pellistor |
| Measuring range: | 0...100 % UEG (0...15 Vol. %) |
| Standard calibration: | 0.3 Vol. % |
| Response time t 90: | < 60 sec |
| Operating temperature: | -30 °C ... +50 °C |
| Start up after reconditioning: | approx. 1 hour |
| Pressure range: | atmospheric ± 10% |
| Air humidity: | 15...90 % R.H. non-condensing |
| Position sensitivity: | none |
| Long term output drift: | < 2% signal loss/month |
| Life span at 20 °C: | 4-6 years, depending on the application |

Housing

| | |
|---------------------|-------------|
| Housing protection: | IP 65 |
| Material: | Thermoplast |
| Weight: | 820 g |

Specifications electronic

| | |
|-------------------------|------------------------------------|
| Wiring analogue: | 3x 0,75 mm ² , shielded |
| Wiring digital: | 4x 1,0 mm ² , shielded |
| Supply: | 230 VAC/ 24 VDC |
| Power consumption: | max. 200 mA |
| Output signal analogue: | 4...20 mA / 0...20 mA |
| Output signal digital: | KIMESSA CANBUS / Modbus RTU |
| Switching output: | 3 potential free (2A) |

Specifications construction

| | |
|------------------|------------------------------|
| Cable gland: | cable bushing plate |
| Cable entry: | unten |
| Tests: | CE |
| Display: | OLED-Display |
| Position: | depending on display |
| RESET-Connector: | yes |
| Volume: | 92 dB |
| Optical alarm: | incorporated LED flash light |

Inspection (Maintenance)

The sensor and the electronic require an inspection. Routine calibration is recommended once or twice a year.

Electronic and Dimensions

