Ammonia Detector IP65 MENH3

April.10

MENH

Features

- **Continuous monotoring**
- **Low zero point drift**
- **Poisoning stable**
- **Long life sensor**
- **Easy maintenance/calibration**
- **Reverse polarity protected**
- **Overload protected**
- **4-20mA loop-powered or 2-10Vdc output signal**

CE

Technical Data

Gas	Ammonia
Detection principle	Electrochemical, diffusion
Stability & resolution	less than +/- 15ppm
Repeatability	+/- 10% of reading
Response time	t90 <120 sec.
Long term sensitivity	<2%/ month.
Sensor coverage	100m2
Storage time	6 months
Mounting height	under ceiling
Output signal	
4-20mA	load < 500ohm overload and short circuit proofed
2-10Vdc	load < 50kohm overload and short circuit proofed
Power supply	18-28Vdc (reverse polarity prot.)
Power consumption	22mA, max (0,6VA)
Expected lifetime	2 years,normal operating envirom.
Humidity range	
Continuous	15-90% rH non-condensing
Operating range	
Continuous	-30 up to +50C
Rating	IP44 Protection Class
Pressure range	Atmospheric +/-10%

Application

For detection leakages in refrigeration plants with ammonia as refrigerant and also within a wide range of commercial and industrial applications.

Due to the analogue signal 4-20mA and 2-10Vdc the NH3 transmitter is compatible to any electronic analogue control, DDC/PLC control or automation system.

Ordering Codes

Wall Mounting

MENH3 1000VC	0-1000ppm	4-20mA/2-10Vdc

Stain	Enclosure of stainless steel
Tool	Tool for opening holes in stainless steel enclosure
/GCD	Protocol for CDA-series
GAS 17	Calibration gas 17 liter
REG	Pressure regulator flow adjusted to 0,5 lit/min.
Warning devices	See special datasheet
Warning signs	See special datasheet

Technical Data continue

Physical Characteristics

Enclosure	Polycarbonate
Flammability	UL94: VO Halogenfree
Enclosure colour	RAL 7032 (light grey)
Dimensions	130x94x57mm
Weight	Approx. 0,2kg
Installation	Wall mounting
Cable entry	1xM20
Wire connection	Screw type terminal min. 0,25mm2 and max 2,5mm2 Max. loop resistor 500ohm (= wire resistor + controller input resistor)
Guidelines	EMV-Directive 89/336/EWG, CE EM-Directive 2004/108/EWG, CE

Maintanance

At commissioning and at periodic intervals determined by the person responsible for the gas detection system **(recommendation every year)**.

After exchange of the sensor

If in case of operational or climatic influences the sensitivity of the sensor **falls below 30 %** in operation, calibration will not be possible any more.

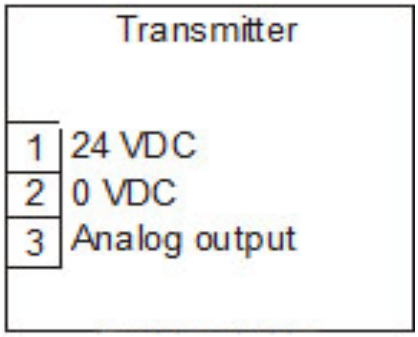
Then the sensor has to be changed.

Exchange of sensor element

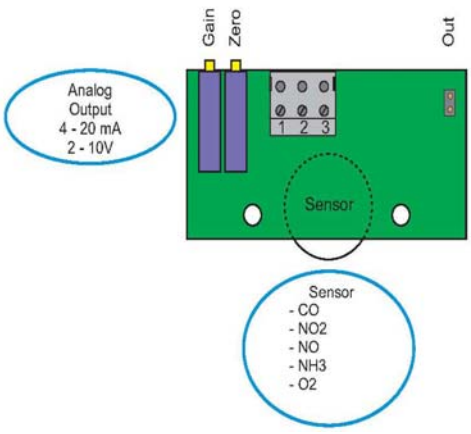
Sensor should always be installed without power applied:

- Unplug basic PCB EC-S carefully from the terminal blocks on the base.
- Unplug old sensor element from the PCB EC-S.
- Plug in sensor element into the PCB EC-S.
- Plug in the PCB EC-S into terminal block carefully.
- Calibrate

Connecting Diagram



Terminal 2 i only for 2-10Vdc signal = 3-wire
4-20mA two-wire loop powered



Calibration