**IP44** 

LENH3



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#### **Features**

- **Continuous monotoring**
- Low zero point drift
- Poisoning stable
- Long life sensor
- Easy maintenance/calibration
- Reverse polarity protected
- Overload protected

**Application** 

industrial applications.

**Ordering Codes** 

**Wall Mounting** 

**LENH3 1000VC** 

4-20mA loop-powered or 2-10Vdc output signal

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

Due to the analogue signal 4-20mA and 2-10Vdc the NH3

DDC/PLC control or automation system.

transmitter is compatible to any electronic analogue control,

0-1000ppm

4-20mA/2-10Vdc

**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

4-20mA

2-10Vdc

**Mounting height Output signal** 

under ceiling

load < 500ohm overload and short circuit proofed

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.

Stain Enclosure of stainless steel

Tool Tool for opening holes in stainless steel enclosure Continuous 15-90% rH non-condensing

> /GCD Protocol for CDA-series **GAS 17** Calibration gas 17 liter

-30 up to +50C **REG** Pressure regulator flow adjusted to 0,5 lit/min.

> Warning devices See special datasheet Warning signs See special datasheet

**Humidity range** 

**Operating range** 

Continuous

**IP44** Protection Class Rating Atmospheric +/-10% Pressure range

Automatikprodukter

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# **Technical Data continue**

### **Physical Characteristics**

**Enclosure** GW Plast 75 GWT

Flammability UL94: VO Halogenfree

Enclosure colour RAL 7032 (light grey)

Dimensions80 x 40mmWeightApprox. 0,2kgInstallationWall mounting

Cable entry Standard 3 pieces

**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.

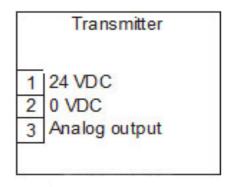
Then the sensor has to be changed.

#### **Exchange of sensor element**

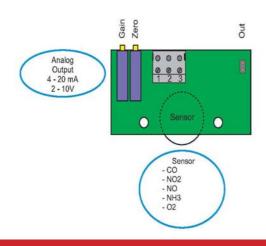
Sensor should always be installed without power applied:

- 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

