IP44

LPNH3



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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

Technical Data

Gas Ammonia

Detection principle Pellistor

Stability & resolution +/-1% of reading

Response time t90 <10 sec. Methane

Long term zero point drift +/- < 2,5% UEG Methane/year

Long term sensitivity +/- < 2% UEG Methane

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 3 years normal operating

envirom.

Humidity range

Continuous 15-90% rH non-condensing

Operating range

-15 up to +50C Continuous

IP44 Protection Class Rating 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

LPNH3 100VC 0-100%UEG 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 **IP44**

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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.

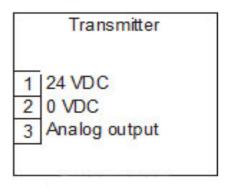
Exchange of sensor element

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

Calibration

Connecting Diagram



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

