

# GAS SENSOR: Ammonia



Type **SX 482**  
Installation In normal electric environment  
Gases **Ammonia (NH<sub>3</sub>)**

**Measuring principle:** **SX 482**, is a tin oxide semiconductor based **4-20 mA** transmitter equipped with a micro processor. The processor automatically calibrates the bottom end of the measuring range so that, slow changes in background concentrations as well as measuring errors, due to zero drift of the measuring element, are automatically corrected. The LED-indication-lights give a versatile picture of the operational status of the transmitter, it informs about the state of the loop current etc.

**SX 482** is a gas sensor of a new generation, developed with all the experience, gathered by Sensorex during many years, in mind.

This sensor is made for controlling **Ammonia** in industry and particularly in cold and freeze stores and compressor rooms. **SX 482** can operate normally at  $-30^{\circ}\text{C}$ . For temperatures below the sensor is placed in a special casing and can then operate in  $-45^{\circ}\text{C}$ .

The **SX 482** Ammonia sensor can easily be connected directly to existing building-control automation or to e.g. operate an AC-inverter.

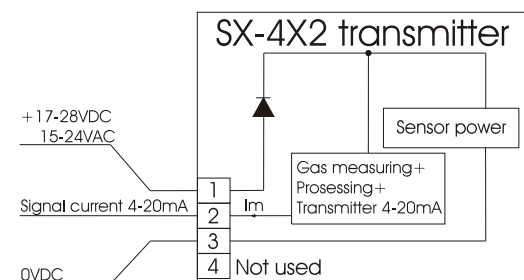
Naturally the **AVA-UNIT** control units made by Sensorex can also be used as Central Units.



## Technical data:

|                       |   |
|-----------------------|---|
| Operating voltage     | 17-28VDC or<br>15-24VAC   |
| Power consumption     | approx. 5W  |
| Output                | 4-20mA lin/log.   |
| Standard meas.range   | 0-1000ppm, 1500ppm  |
| Operating temperature | $-30...+55^{\circ}\text{C}$   |
| Operating humidity    | max. 99% RH<br>(non-condensing)   |
| Life expectancy       | > 5 years   |
| Response time         | <10sec. (90%of full<br>scale)   |
| Service               | In dusty conditions the<br>sensor must be cleaned<br>as per requirement.              |
| Cross sensitivity     | Flammable<br>hydrocarbons, especially<br>solvents and alcohol..                       |
| Sensor cable          | 3-wire lead   |
| Cable lead-through    | PG 9  |
| Cable                 | e.g. 3 x 0,5mm <sup>2</sup>   |
| Wall Installation     | Sensor cover must point<br>down. (wall mounting<br>bracket delivered with<br>sensor.) |
| Duct installation     | With duct adapter.<br>(Adapter must be<br>ordered separately.)                        |

## SX-4X2-series basic connection



## จัดจำหน่ายโดย

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Please note !

Contact with Silicone fumes is to be avoided as they can permanently damage the characteristics of the sensor element. In order to secure the operational reliability of the transmitter, a yearly check up and possible calibration is recommended.