

# GAS SENSOR: Ethene C<sub>2</sub>H<sub>4</sub>



Type **SX 912**  
Installation In normal electric environment  
Gases **Ethene / Ethylene**

**Measuring principle:** SX 912 has been developed for measuring ethene concentrations and is a 4-20 mA transmitter fitted with a microcontroller. The controller 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 over a period of time. Checking the operation is easily done by applying test gas to the sensor. The calibration is simple with Sensorex' Calibration Kit. The concentration of the calibration gas is 50 % of the measuring range. E.g. the calibration of the standard range 0-2000 ppm is done with 1000 ppm gas. The sensor allows approx. a +/-50 % diversion from the factory calibrated 2000 ppm range, thus the range can, in field conditions, be changed within the range 1500 — 2500 ppm.

The LED-indication-lights inform of the operational status of the transmitter both during normal operation and calibration. During normal operation the Green LED is flashing, informing of the 4 - 20 mA output signal. If the Red LED is continuously lit it informs of a fault in the transmitter, which also occurs as a 2 mA output signal.

The sensor is well suited for measuring Ethene gas concentrations in order to control valves or ventilation according to requirement (Please note that the sensor is cross sensitive to flammable gases).

**Please Note !** SX912 sensor is suitable for measuring ethylene on the concentration range of 150-2000ppm. If other ranges are required please contact Sensorex.

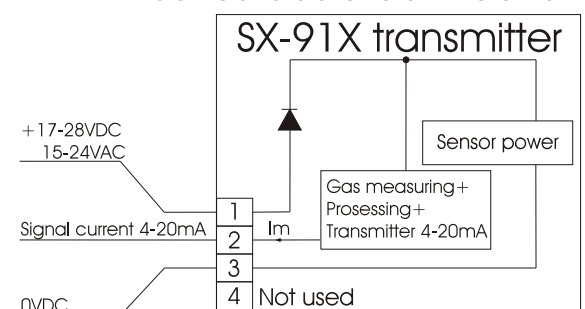
## Technical data:

Operating voltage	17-28VDC or 15-24VAC
Power consumption	approx. 2W
Output	4-20mA lin. or log.
Standard meas. range	0-2000ppm C <sub>2</sub> H <sub>4</sub> (Max. 27 000ppm)
Operating temperature	<b>SX912</b> -10°...+55°C
Operating humidity	Max. 95% RH (non-condensing)
Life expectancy	>5 years
Response time	<10 sec.(90% of full scale)
Service	In dusty conditions the sensor element must be cleaned as per requirement
Calibration	Calibration should be checked at least once a year
Cross sensitivity	Flammable Hydrocarbons
Sensor cable	3-wire lead
Cable lead-through	PG 9
IP classification	IP 65
Cable	e.g. 3x0,5mm <sup>2</sup>
Wall installation	Sensor cover must point down

(Wall mounting bracket delivered with the sensor)



## SX-91X-series basic connection



**Please note!** Contact with silicone fumes or undiluted pure gas 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 check up, when required, and possible calibration is recommended. The sensor, when energized, must be in the same position as when calibrated.

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