

# GAS SENSOR: R-refrigerants



Type **SX 452**  
Installation In normal electric environment  
Gases **Refrigerants: R12, R22, R404, R500, R502 etc...**

**Measuring principle:** SX 452 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.

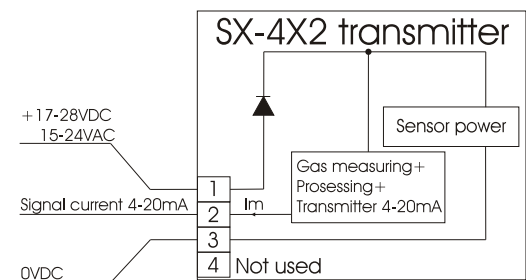
SX 452 is a gas sensor of a new generation, developed with all the experience, gathered by Sensorex during many years, in mind. This sensor is made for controlling R-refrigerants in industry and particularly in cold and freeze stores and compressor rooms. SX 452 can operate normally at -30°C. For temperatures below the sensor is placed in a special casing and can then operate in -45°C. The SX 452 R-refrigerants 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 15-24VAC
Power consumption	approx. 5W
Output	4-20mA lin/log.
Standard meas.range	0-1500ppm
Operating temperature	-30...+55°C
Operating humidity	max. 99% RH (non-condensing)
Life expectancy	> 5 years
Response time	<10sec. (90%of full scale)
Service	In dusty conditions the sensor must be cleaned as per requirement.
Cross sensitivity	Flammable hydrocarbons.
Sensor cable	3-wire lead
Cable lead-through	PG 9
Cable	e.g. 3 x 0,5mm <sup>2</sup>
Enclosure	IP54
Wall Installation	Sensor cover must point down. (wall mounting bracket delivered with sensor.)
Duct installation	With duct adapter. (Adapter must be ordered separately.)

## SX-4X2-series basic connection



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.

จัดจำหน่ายโดย

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