

6940.00.030

6940.00.040

H2 sensor kit for GC oven

Sensor 6940.00.070 is a security system that constantly detects the amount of Hydrogen present in the GC's oven and blocks the Hydrogen generation if it detects an amount greater than the safety threshold.

The **6940.00.055** controller reads the percentage of Hydrogen measured by the sensor **6940.00.070** and, if the value exceeds the threshold alarm, the Controller deactivates the solenoid valve in the **6940.00.056** block. The alarm can be signaled to a PC and to a remote device.



Sensor 6940.00.070 is engineered to work in stand-alone mode connected by RS-485 network to a Hydrogen Generator. The sensor can be connected directly with the **LNI** Hydrogen Generators.

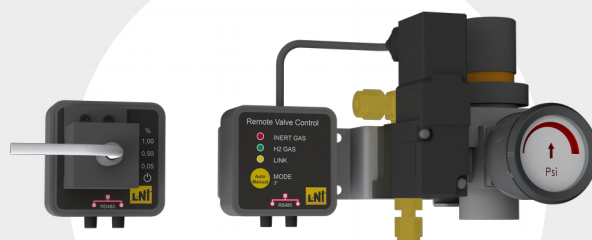
When the hydrogen concentration detected exceeds a threshold of safety, the Hydrogen Generator automatically stops the production and audible and visual alarms will be reported.

Main Applications

- GC's oven
- All environments where Hydrogen is used

Main advantages

- ✓ Continuous monitoring of the working environment
- ✓ Compatible with all GCs
- ✓ Simple installation
- ✓ Simple calibration
- ✓ Acoustic and optical alarms
- ✓ Potential explosion risks eliminated
- ✓ Low operating costs



6940.00.050



6940.00.055

Power Supply Voltage	12 VDC +/- 5%
Power Supply Current	0.8 A use with OPT.H2.SENS.VB.V2
Valve output	Open collector 12VDC/500mA
Ambient temperature	5-35°C (41-95°F)
Ambient Humidity (max, non condensing)	80% at 25°C (77°F)
IP rating	IP20

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Hydrogen Inlet pressure	1 to 9 bar
Inert Inlet pressure	1 to 10 bar
Pressure regulator	1 to 9 bar

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Hydrogen Sensitivity Range	0.01% to 1.00% by hydrogen volume (25% LEL, Lower Explosion Limit)
Accuracy	± (5.0% of F.S. + 1000ppm)
Typical Response Time	less than 20 sec
Power Supply Voltage	From 9VDC to 28VDC
Communication port	RS-485
Protocol	MODBUS-RTU
Accuracy checking interval	1 year (suggested 180 days)
Hydrogen Sensor Technology	Dioxide semiconductor
Product Life Expectancy	10 years
Body temperature range	-10 °C to 40 °C

Ordering codes

H2 sensor kit

6940.00.030

6940.00.040

Spare parts

6940.00.050

6940.00.070

6940.00.080

Accessories (optionals)

6940.00.090

OPT.H2.SENS.K3

OPT.H2.SENS.K4

OPT.H2.SENS.RV

OPT.H2.SENS.2

OPT.H2.SENS.PS4

OPT.H2.SENS.485PBX



LNI Swissgas

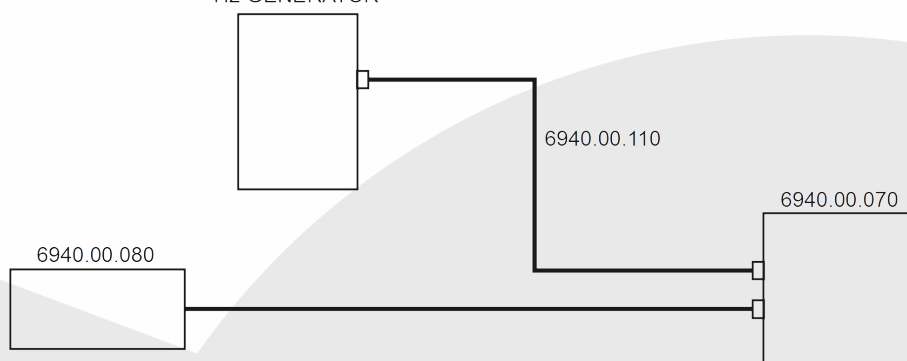
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Principle diagram

Sensor kit **6940.00.030**

H2 GENERATOR



Sensor kit **6940.00.040**

