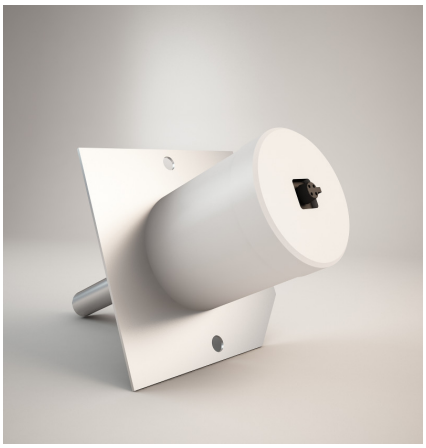
F•DGSi
Innovative Gas System Company

H2-SENSOR FOR YOUR GC !



Get all the benefits of the hydrogen generator as carrier gas.... without taking the risk!

If you want to take full advantage of the power of High Resolution Gas chromatography for your analytical results, then hydrogen will be in most cases the carrier gas of choice.

Its low viscosity and excellent mass transfer capabilities results in shorter run times and better separation performances.

- **Beside this hydrogen costs about 75% less then helium of comparable quality.**
- **The only drawback is the danger of explosion in case of a leak in the column oven.**

The sensor can be connected directly with the Alliance hydrogen generators.
It continuously monitors the atmosphere in the GC oven and transmits the data to the hydrogen generator. When the hydrogen concentration detected exceeds the threshold of safety, the hydrogen generator will be automatically blocked and reported an audible and visual alarms.
The oven is immediately shut off and the cooling flap opens.

In addition the system can switch to nitrogen if a gas switching valve is provided.
This will also happens in a event of power failure.

It can work in standalone mode connected by RS-485 network to a SCADA systems.

Technical Specifications

Detection Range	0.1% to 1% by volume (25% of LEL,Lower Explosion Limit)
Alarm threshold	Adjustable from 0.5% to 1% by volume
Temperature Range	0 to 50℃
Stability of reading	Better than 200 PPM (within one year)
Power Supply Voltage	From 8V to 30V (DC)
Communication port	RS-485
Protocol	MODBUS-RTU
Calibration:	Should be checked every year with a test gas (1.0%)