



# FID Station-plus Hydrogen + Zero Air Generators

## Description

The **FID STATION PLUS** hydrogen and air generator uses the new and latest technology in polymer membrane (PEM) for the production of pure Hydrogen.

Its horizontal format allows positioning in over the laboratory bench while it provides you a support for set your GC, optimizing the space you need. Its 17 cm–only-height guarantee the best access to the injectors of any GC in the market. Generator is equipped with an automatic loading of deionized water from a smart internal system tanks that give to the customer a 7 liters of water autonomy, it means that with a FID standard flow, the FID STATION PLUS can provide up to 7000 liters of H2 before the user refills it. Moreover, the practical system of internal de-ionizing cartridge replacement greatly simplifies the only maintenance recommended. The FID STATION PLUS is available in the usual flows of H2 production up to 600cc/min with a purity of 5.0 or 6.0. Included in all models, the Zero Air generator that provides 1.5 liters of Zero Air with a contents of HC around 0.5ppm. It integrates a catalytic oven to remove the CH4 and other Hydrocarbons (oil-free compressor not included). The Zero Air generator consists on a Palladium catalytic oven. The external compressed Air goes through a condenser with automatic drain system. A fine dust filter and a mechanical pressure regulator terminate to condition the air. The FID STATION PLUS avoids the need for expensive installation of gas pipelines from the cylinder storerooms to the labs, as well as the need to repeatedly change the bottles.





### Security:

In case of wrong internal functioning or leak in the H2 circuit, the production of H2 is stopped and an alarm is activated (automatic leak check). The suppression of dead volumes (<100ml) as well as an "on demand generation" avoid the stock of large quantity of hydrogen and enable the use of the instrument in area where hydrogen cylinders are restricted. An optional hydrogen sensor is available for monitoring the oven-LEL of the GC. The **FID STATION PLUS** series includes also, additional security features like the shock sensor against shocks generated by Earthquake.

### Applications



The **FID STATION PLUS** is the indispensable tool for the alimentation in air and hydrogen of all FID, BTEX, NPD<sup>^</sup>, TDC, VOC gas chromatographs. **Can be used also as reagent gas for ELCD / HALL.** 

### Hydrogen as carrier Gas:

Hydrogen as a carrier gas is faster and more sensitive than the more expensive helium. Run time savings of 25% to 35% without a decline in resolution.

## Specifications

User interface:

Set points, system status, user parameter / touch screen / LCD graphic display

Remote command: Noise level: RS232/485 as option (Need I/O board option) <45 dBA

Power consumption

า:	H2 flow	100	220	300	600	
	NM type	90W	125W	150W	300W	
	PG type	70W	105W	130W	280W	
Air from 50 to 150 W					W depending of the flow	

Power requirements: Dimensions [cm]: Tested weight support

Net weight [Kg]: Shipping weight [Kg]: 230V/50-60Hz – 115V/60Hz – 100V/50-60Hz 15 x 69 x 68 (HxWxD) 80 Kg

30 to 40 Kg depending on model (Kg]: 30 to 42 Kg depending on model

Hydrog	gen Generator	Zero Air Generator		
Outflow generated [ml/min]	100-300-600 for the 99.9999% purity 100-220 for the 99.999% purity	Outflow generated	0 to 1.5 l/min at atmospheric conditions Need compressed Air	
Outlet pressure	Adjustable between 0.1 and 11 bar	Outlet pressure	1 outlet adjustable between 1 and 6 bar	
Purity	>99.9999% (PSA dryer) >99.999% (Permapure dryer)	Remaining pollutant level	HCnm < 50ppb HCm < 50ppb	
Life time of deionizer bag Internal tank	6 months 7 L			

## **Models-Options – Accessories – Spare parts**

### Models:

6800 58 010.B	FID-Station PG-Plus 100Nml/min + Air
6800 58 022.B	FID-Station PG-Plus 220Nml/min + Air
6800 59 010.B	FID-Station NM-Plus 100Nml/min + Air
6800 59 030.B	FID-Station NM-Plus 300Nml/min + Air
6800 59 060.B	FID-Station NM-Plus 600Nml/min + Air
Options:	
6800 52 001	I/O board (including cascading capabilities & RS232/485)
6800 52 002	PC Software (require I/O Board)

### Consumables:

6700 21 762 Deionizer LE bag (incl. 2 standard bag)

schm

Swiss Made 😗 Innovation

#### B = Voltage

- 1 = Voltage 230V/50-60Hz
- 2 = Voltage 110V/60Hz
- 3 = Voltage 100V/60Hz

