

HG 4U PRO

PEM Rack 19" Hydrogen generator

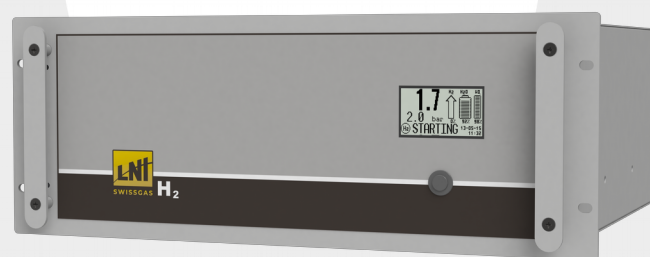
The HydroGen series **HG 4U PRO** is able to generate 2000 cc/min of Hydrogen with purity better than 99.99999% and pressure up to 16 bar (232 PSI). The HG 4U PRO includes an electrolytic cell with polymeric membrane (PEM) using distilled water. The two-column PSA drying system with automatic regeneration ensures the maximum grade of hydrogen purity, and is completely maintenance-free. The HG 4U PRO is the ideal Hydrogen for all GC-FID detectors. The on-board CPU constantly control the operating parameters to guarantee full safety. The touch-screen LCD interface provides simple and user-friendly management of all functions on the unit.

Main Applications

- Carrier gas for GC and GC-MS
- GC-FID / GC-NPD / GC-FPD
- THA
- Gas sensing
- Fuel cell

Main Advantages

- ✓ Quick installation
- ✓ Easy use
- ✓ Hydrogen flow rate 2000 cc/min
- ✓ Pressure up to 16 bar (232 psi)
- ✓ Hydrogen purity: 99.99999%
- ✓ RS 485, RS 232 and USB as standard
- ✓ LAN optional
- ✓ Dryer with no maintenance
- ✓ Reduced foot print: 19" rack 4U
- ✓ High pressure GLS electronically controlled (patented)



Specifications



Models: HG 4U PRO	800	900	1000	1200	2000
General information					
Electrolytic cell	PEM technology				
Drying system	PSA (Pressure Swing Adsorption)				
H2 purity ¹	>99.99999%				
Outlet pressure	12 Bar(174 psi) - optional 16Bar(232psi)				
H2 flow rate cc/min (max)	800	900	1000	1200	2000
Dimensions	Standard 19" Rack 4U – deep 48cm				
Net weight (water tank empty)	22Kg		25Kg		26Kg
Communication					
RS485	Standard				
RS232	Standard				
USB	Standard				
LAN	Optional				
Software function					
Parallel mode capability	Standard				
Fill canister function	Standard				
Water					
Quality	Deionized, ASTM II, <0.1uS				
Supply Pressure (Min, Max)	-0.2 bars (1.4 psi), 1 Bar (14 psi)				
Supply Flow Rate(min, max)	0.2 l/min, 1.5 l/min				
Internal water tank capacity	1.1 l				
External tank capacity	5, 10 or 24 l				
Electrical data					
Connection type	IEC320-C13				
Supply voltage	100-240Vac 50/60Hz (200-240Vac 50/60Hz for 4U PRO 2000)				
Installation Power (max)	450W	560W		960W	
Fuse Rating (5x20 mm)	6,3A 250VAC				
Connections					
Hydrogen Outlet	1/8" Compression Fitting				
Water	Quick Release Push in Fitting				

¹ referred to O2, Dew-point <-75°C

Ordering codes

Gas Generators

6920.16.080

6920.16.090

6920.16.100

6920.16.120

6920.16.200

Consumable

6930.00.091

HG 4U PRO 800

HG 4U PRO 900

HG 4U PRO 1000

HG 4U PRO 1200

HG 4U PRO 2000

Deionizer water filter



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