

# UPAS-FID HG-100

Technical description

## Technical data

Device type	HG-100
Ambient temperature	+5 °C bis 30 °C
Storage temperature	+5 °C bis 30°C
Humidity	< 90 % rel. Humidity, + 20 °C
	< 50 % rel. humidity, + 40 °C
	Non condensing
Geographical altitude	0 bis 700 m above sea level
Connections	1x Bus in
	1x Bus out
	1x potentialfree status kontakt
Protection class	IP20
Languages, sw itchable	German; English



The UPAS-HG series is the product line of the Hydrogen Generator, running under the UPAS analysis platform. With the Hydrogen Generator you are able to produce hydrogen as fuel gas for your flame ionisation detector. The platform also offers the possibility to run multiple flame ionisation detectors (HG250).

## Application

The UPAS-HG was developed to supply the flame ionisation detectors. It can be used as a stand-alone unit in the laboratory or integrated into bottle holders in portable applications.

## Technical design

The UPAS-HG series is protected against uncontrolled leakage by internal leakage monitoring. The insertion of the stand alone is safe. The bottle holder offers the possibility to transport additional test gases.

## Support

Please contact our technical sales department with your specific measuring task. We offer comprehensive advice for your application and also develop additional electronic and mechanical components on behalf of the customer.

Technology	Hydrogen Generator		
Typ	HG 100/ HG 250		
Housing	Cassette : - 19" 4 HE 34 TE-351 mm Stand Alone : 19" 4 HE , 34 TE Bottle holder: 19" 4HE 84 TE –351 mm Dimension : see attachment drawings Weight : 7 kg		
Zulassungen	CE Konformität		
Outlet pressure	0,6 bar to 0,9 bar		
Outlet Fitting	6 mm Swagelok 6 mm Swagelok Stainless Steel Tube Fitting		
Maximum gas flow	HG-100: 100 ml/min; HG-200: 250 ml/min		
Hydrogen: purity	> 99,999 Vol. %		
Hydrogen: residual hydrocarbons	< 0,1 ppm		
Hydrogen: Dew point	< -40°C		
Requirements for the water	Highly purified distilled water		
Conductivity of the water	< 1µS /cm		
Bacterial Endotoxins	< 0,25 IE/ml (entspricht rund 25 ng/l)		
Total organic carbon (TOC)	≤ 0,5 mg/l		
Nitrate	≤ 0,2 mg/l		
<b>Water supply</b>	By internal pump into the inner tank; the storage tank must be under the generator (max. 1m); (with 5l water 6000 l hydrogen can be produced)		
<b>Facts</b>	Low hydrogen storage volume; Pressure relief valve; Internal leak test; Automatic shut-off; Maximum current limit; Low hydrogen storage volume;		
Power supply	voltage / frequency	<b>UPAS - HG</b>	
	90 - 260V ± 10%; 48 Hz to 62 Hz	150 W	

## Order information

217.210124	UPAS-HG 100
217.210123	UPAS-FH -HG
417.210031	Signal Cabel M8 Kabelstecker

## Drawing of UPAS-HG 100 Stand Alone

(figures in mm)

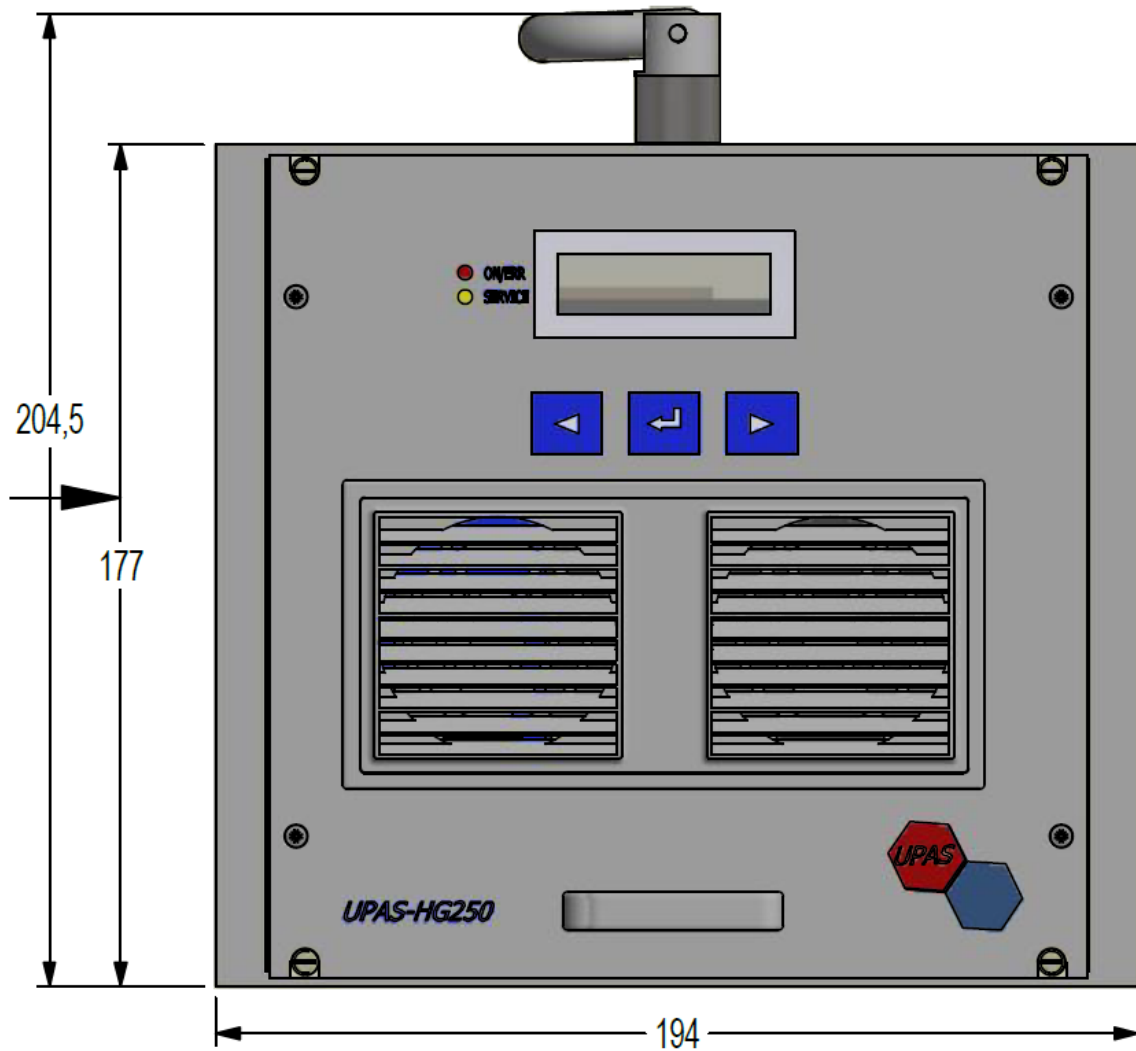


Figure: Front view of UPAS-FID HG-250 Stand Alone

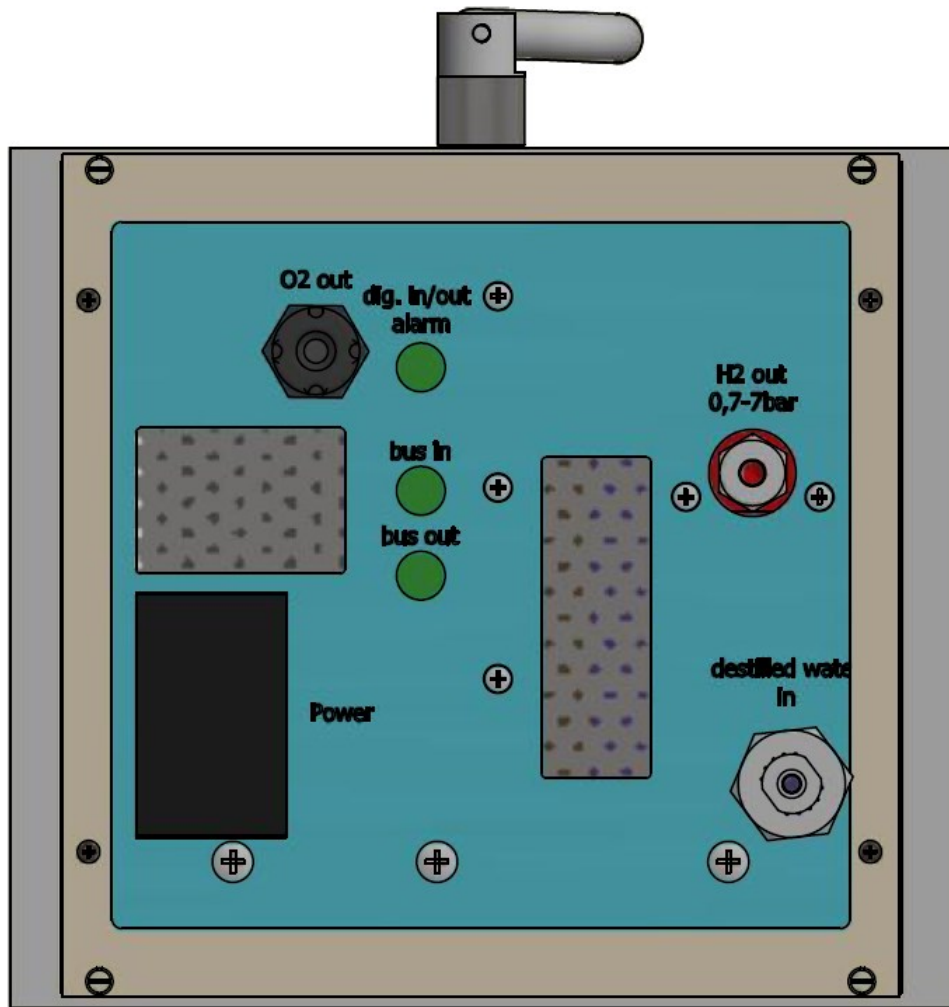


Figure: Rear view of UPAS-FID HG-100 Stand Alone

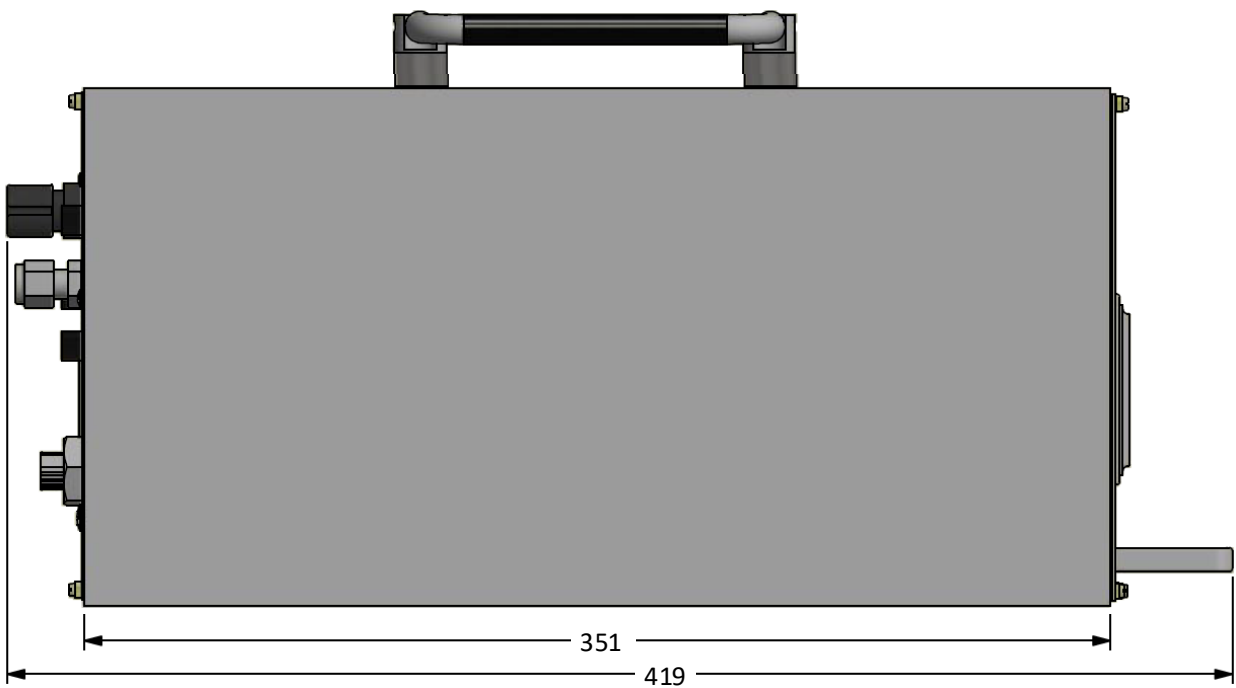


Figure: side view UPAS-FID HG-100 Stand Alone

# Drwinging of UPAS FH-HG 100

(figures in mm)

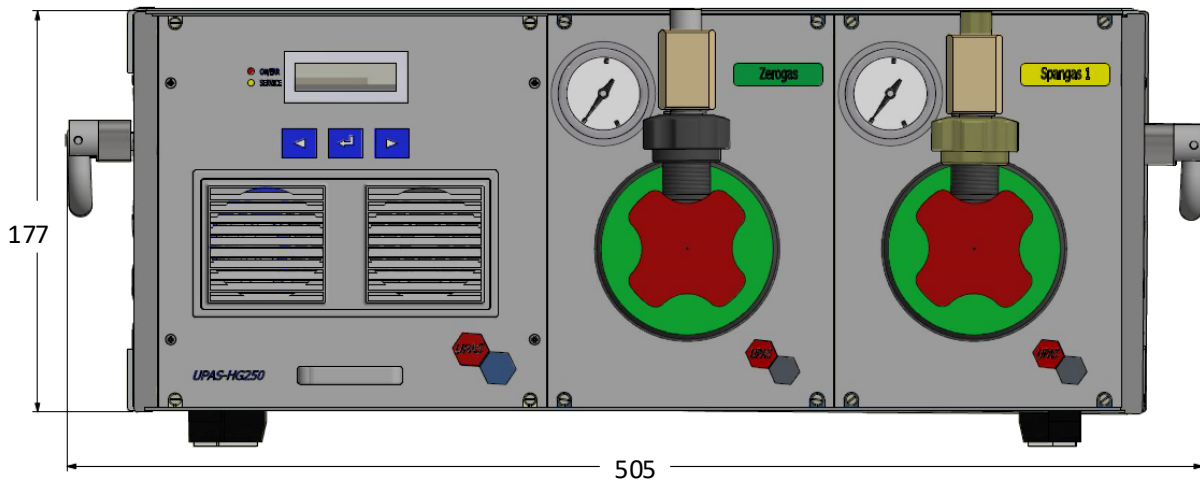


Figure : Frontansicht UPAS-FID FH-HG-100

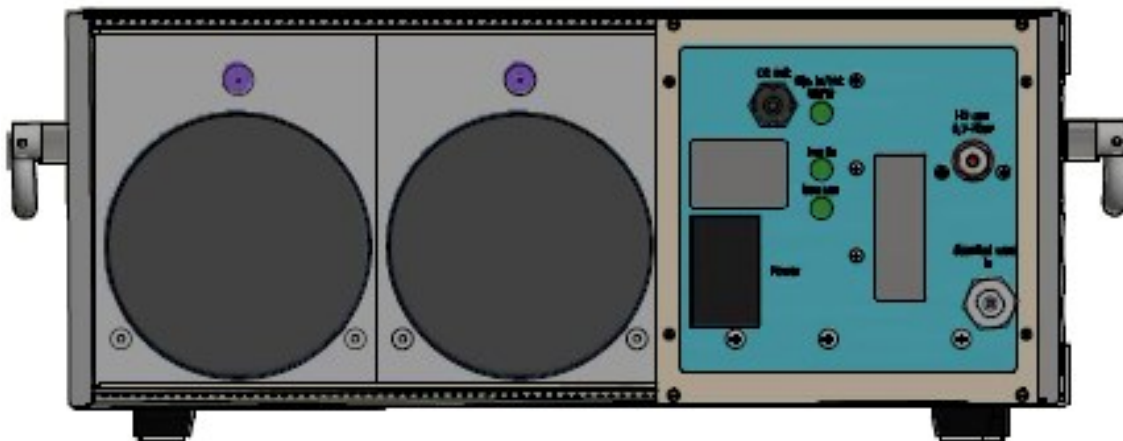


Figure: Rear view UPAS-FID FH-HG-100

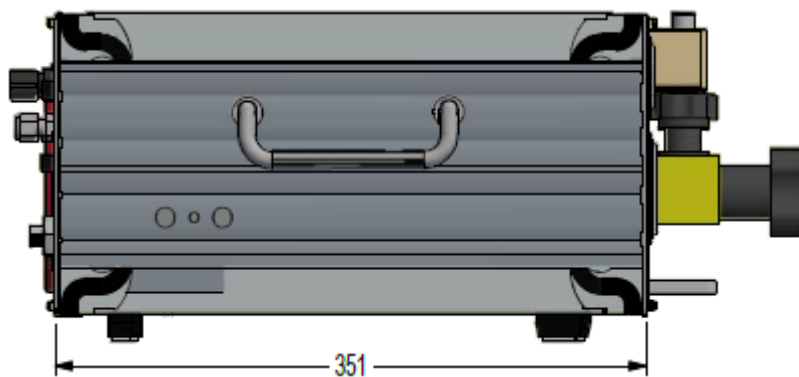


Figure: Side view UPAS-FID HG-100 Stand Alone

## Contact

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We reserve the right to make changes in the course of technical progress, a special note to the customer is not required. Please also note the technical data in the operating instructions.