

THT / TBM GAS ANALYZER



IN OPTION

RACK ENCLOSURE
AVAILABLE

G800 GAS ANALYZER

THE MOST RELIABLE METHOD FOR THT & TBM MONITORING

- ✓ High selectivity, sensitivity and accuracy (FFT)
- ✓ Fast response time: ≤ 10 s.
- ✓ No interferences (CO , CO_2 , CH_4 , H_2O ...)
- ✓ Low maintenance and long life-time
- ✓ No consumables / reagents
- ✓ Cost-effective
- ✓ Short time and easy operation
- ✓ Non-destructive analysis
- ✓ Wide range of applications

• CONFIGURABLE SETTINGS

Adjusting various settings according to the user's requirements (measurement cycles, units, and views)

• VARIOUS DISPLAY

Graph mode, Overview, and Measurement cycle

• EXPORTING DATA

Save data or make screenshots on USB or SD card

• REMOTE COMMUNICATION

RS485 / Modbus RTU/TCP slave or master
(Show value, calibration status, fault status...)

PARAMETER	METHOD	RANGE	 ACCURACY	 REPEATABILITY	 DETECTION LIMIT	 RESPONSE TIME
TETRAHYDROTHIOPHENE — THT T-BUTYL MERCAPTAN — TBM	UV FTLS Spectroscopy	0.1 ... 10 ppm*	$< \pm 1\%$ FS	$< \pm 1\%$ FS	0.1 ppm	≤ 10 s.
		0.5 ... 50 mg/Nm ³ *	$< \pm 1\%$ FS	$< \pm 1\%$ FS	0.5 mg/Nm ³	

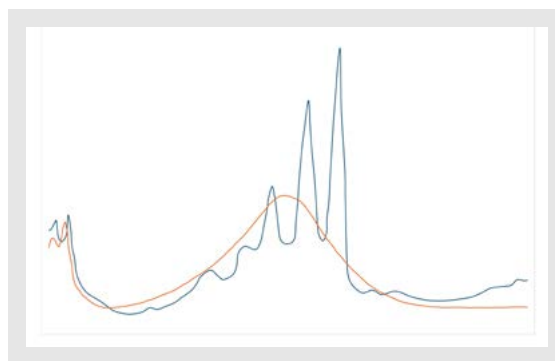
*The parameter ranges are examples. Customized ranges on request.

Our powerful analytical method allows us to be more selective and to offer a fast response time

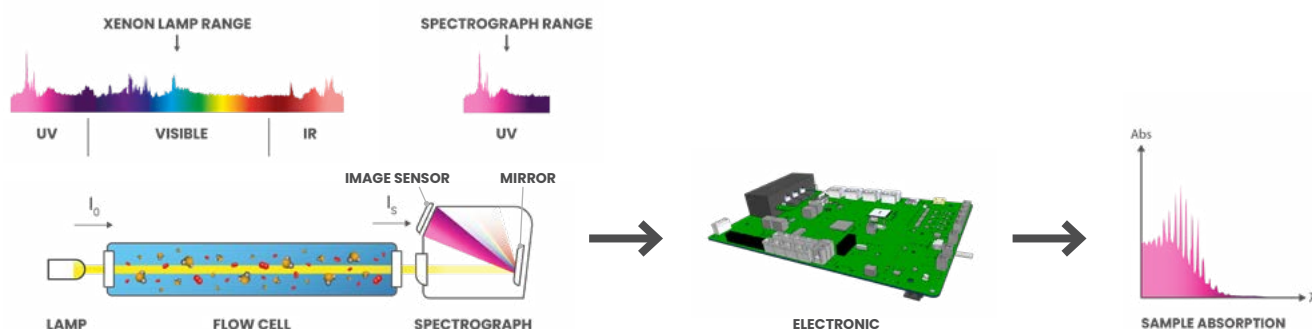
UV FTLS SPECTROSCOPY

Thanks to the use of a high-resolution spectrograph combined with innovative mathematical processing, this technique allows us to achieve greater precision and selectivity.

The principle is based on the absorption of light. After performing the absorption measurement, Fourier Transform and Least Square calculations are applied through our software to determine the measurement result in real time. As no probe or instrument is in direct contact with the sample, the maintenance frequency is greatly reduced when the measurement is performed by UV FTLS spectroscopy.

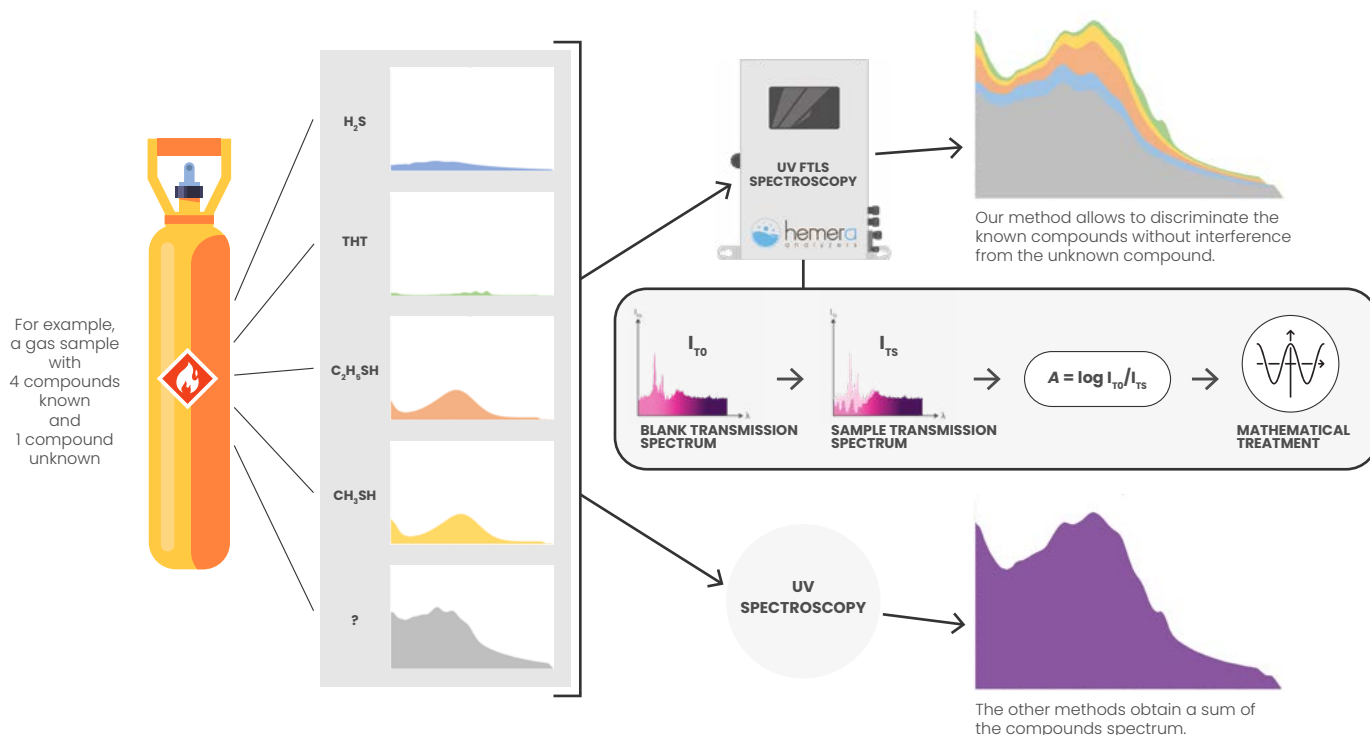


THT & TBM absorption spectrum in UV range



Why is our method so selective?

Our method allows us to avoid interferences such as carbon monoxide (CO), carbon dioxide (CO₂), methane (CH₄), humidity (H₂O), and unknown gases.



Technical specifications

SAMPLE CONDITION	
Flow	0...2 L/min
Pressure	< 2 bars
Temperature	5 ... 35°C
CONTROLLER	
Display	8.5" TFT colour screen 16/9 (LED backlight)
Resolution	800 x 480 px
Touch screen	Glass to glass
Memory	16 GB SD card
Data transfer	USB type A
Operating temperature	5 ... 45°C
Operating humidity	< 90 % RH
COMMUNICATION OUTPUT	
Analog	4-20 mA isolated (Active or Passive) / 500 Ω max
Relay	Programmable limit or fault alarms / 5A (NO) 3A (NC) @ 277 VAC
Digital	RS485 / Modbus (Slave or Master) - Show value, calibration status, fault status...
POWER SUPPLY	
Voltage	90 ... 240 VAC (50 - 60 Hz) or 24 VDC
Consumption	< 20 W (60 W max.)



Our analyzers come with a 2-year parts and labor warranty, subject to normal use.

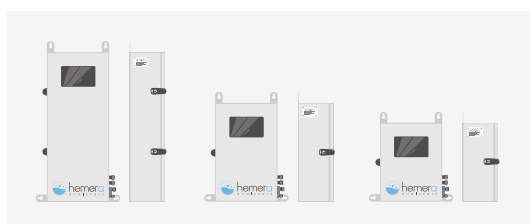
STANDARD ENCLOSURE



Type	Wall mounted / On a table / Portable (optional handles)
Material	SS316L
Dimensions (HxWxD)	3 SIZES (Depends on the parameter and the method of measurement) — 430x340x195 mm 570x340x195 mm 900x340x195 mm
Weight	± 20 kg
Protection class	IP54 / IP65 in option
Area classification	Safe



**TOUCH SCREEN
GLASS TO GLASS 8.5"**
adapted to several
environment
even aggressive ones



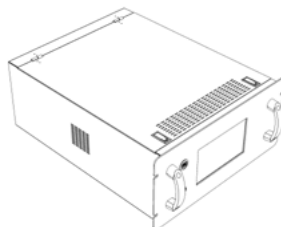
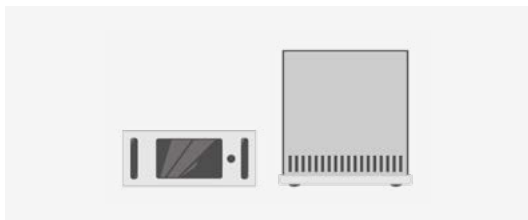
RACK ENCLOSURE



Type	Rack 19"
Material	SS316L
Dimensions (HxWxD)	220.5x431x571.5 mm
Weight	± 20 kg
Protection class	IP30
Area classification	Safe



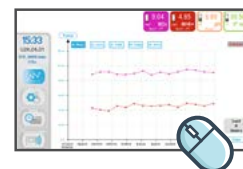
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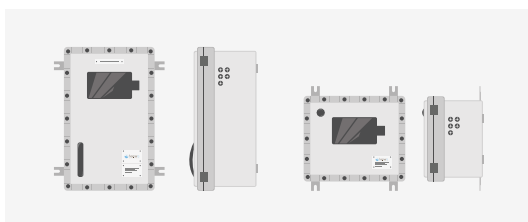
EXPLOSION PROOF ENCLOSURE



Type	Wall mounted - Explosion proof - ATEX
Material	Copper Free Aluminium Alloy (Cu<0.1%)
Dimensions (HxWxD)	2 SIZES (Depends on the parameter and the method of measurement) — 413x488x320 mm 640x370x278 mm
Weight	± 50 kg
Protection class	IP66
Area classification	Zone 1 or 2



**INTEGRATED SCREEN 8.5"
CONTROLLABLE WITH
A MOUSE SUPPLIED
WITH THE ANALYZER**
adapted to several
environment
even aggressive ones



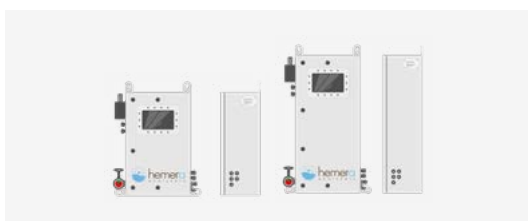
PRESSURISED ENCLOSURE



Type	Wall mounted - Pressurised - ATEX
Material	SS316L
Dimensions (HxWxD)	2 SIZES (Depends on the parameter and the method of measurement) — 570x430x205 mm 900x430x205 mm
Weight	± 40 kg
Protection class	IP65
Area classification	Zone 1 or 2



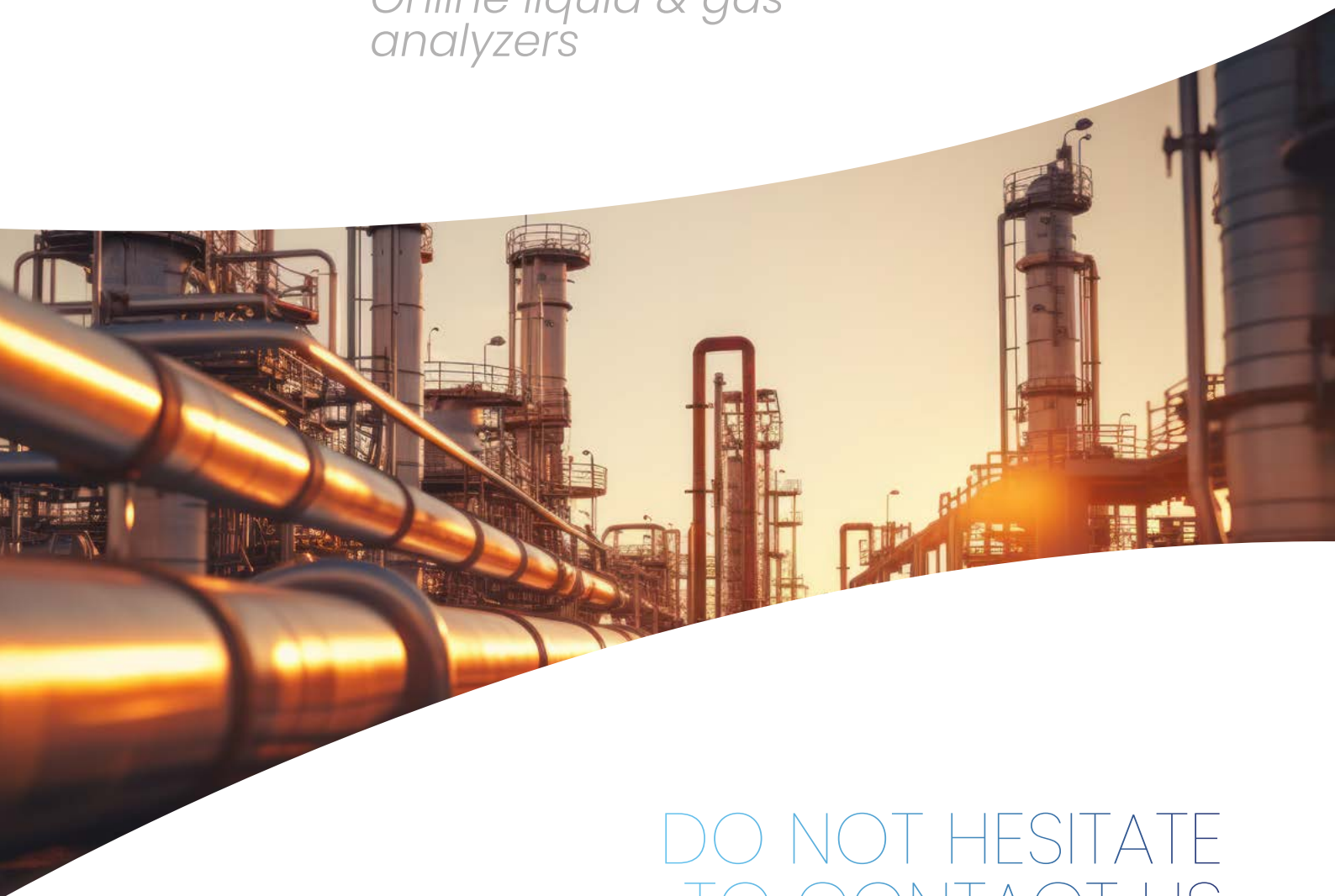
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