Hydrogen Sulfide
On-line Gas analyzer G800

Application

. Gas Processing Facilities
. Natural Gas Pipeline
. Chemical plants
. Gas Well Testing & Analysis
. Landfills & Biogas

Benefits

High Selectivity
. Very low interference
. Low detection limit

High Reliability
. No moving parts
. High quality meterial
. No contact with detector

Simplicity
. Easy to use
. Short-time operation

Robustness
. Can be install outside in corrosive or explosive area
. No spare parts needed to be change

Features

Measurement
. High resolution and sensitivity optical sensor
. Powerful mathematical treatment FTLS

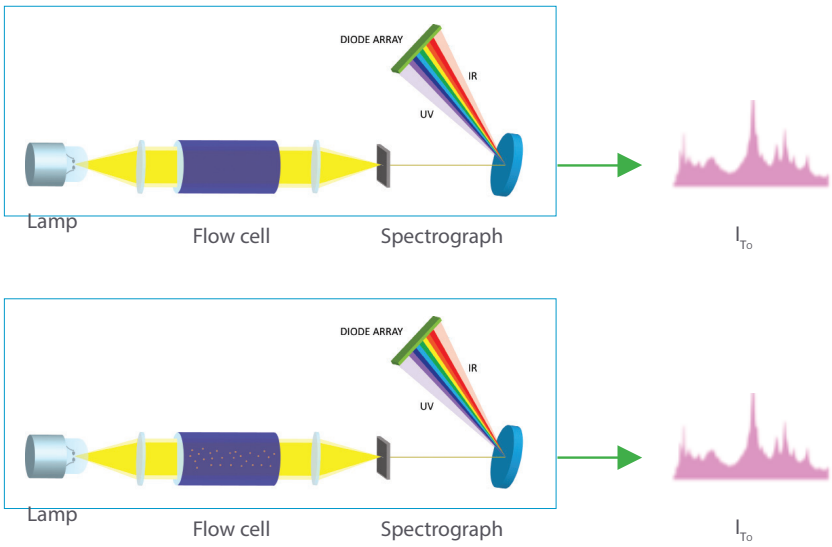
Sampling
. Multiplexing system in option
. Heated or cooling system in option

Communication and interface
. On board memory for storage data (16 GB)
. Intuitive friendly interface on TFT color touch screen (glass to glass)

Enclosure
. IP65 Stainless Steel enclosure
. ATEX in option

Maintenance
. 10 year lifetime UV lamp
. Once a year calibration

hemera
analyzers



UV-Visible Spectroscopy

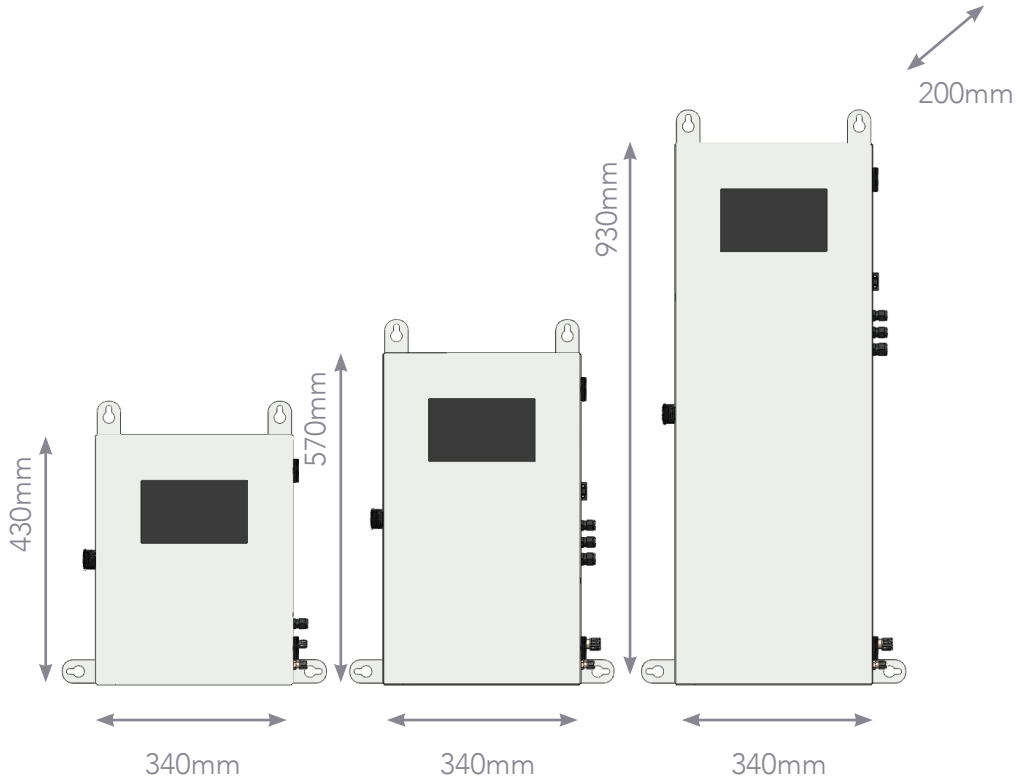
According to Beer-Lambert's law. Absorbance spectrum calculation is the difference between incident light (IT_0) on ZERO (or BLANK) and transmitted light (IT_S) on SAMPLE (or SPAN). Absorbance is defined as follows:

$$A = \log \frac{I_{T0}}{I_{TS}}$$

Sample absorption spectrum is treated using the Fourier Transform Least Square mathematical treatment (FTLS) in order to extract the spectrum corresponding to each element to be monitored.

Size

The images show the size of our analyzer. The size could be different, it depends on customers' requires.



Sensor	
Parameter	H_2S
Range	0 ... 2 ppm to 0...10 000 ppm (More choices please contact with us)
Accuracy	< ± 2% F.S.
Repeatability	< ± 2% F.S.
Detection limit	< ± 2% F.S.
Response time	< 10 sec
Sample Condition	
Flow	0 ... 2 L/min
Pressure	< 2 bars
Temperature	0 to 50°C - up to 190°C in option
Volume	< 100 cm^3
Wetted parts	Quartz or Sapphire / FPM / Stainless steel / PEEK
Controller	
Display	8.5" TFT colour screen 16/9 (LED backlight)
Resolution	800 x 480 pixels
Touch screen	Glass to glass
Memory	8 GB SD card
Data transfer	USB Type A
Operating temperature	5 ...50 °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)
Power supply	
Voltage	100 ... 240 VAC (50 - 60 Hz) or 24 VDC
Consumption	< 20 W (60 W max.)
Enclosure	
Type	Wall mouted
Material	SS 316L
Dimensions	Depends on the range
Weight	15 - 25 kg
Protection class	IP54
Area classification	Safe Area/ ATEX Zone 1 or 2 in option