

On-line monitoring



A REVOLUTION  
IN THE ON-LINE GAS  
ANALYSIS

[www.ap2e.com](http://www.ap2e.com)



# AP2E

## A REVOLUTION IN THE ON-LINE GAS ANALYSIS



AWARD 2010

On-line monitoring



## OUR MISSION

On-line gas analysis for Environment and Industrial Processes.

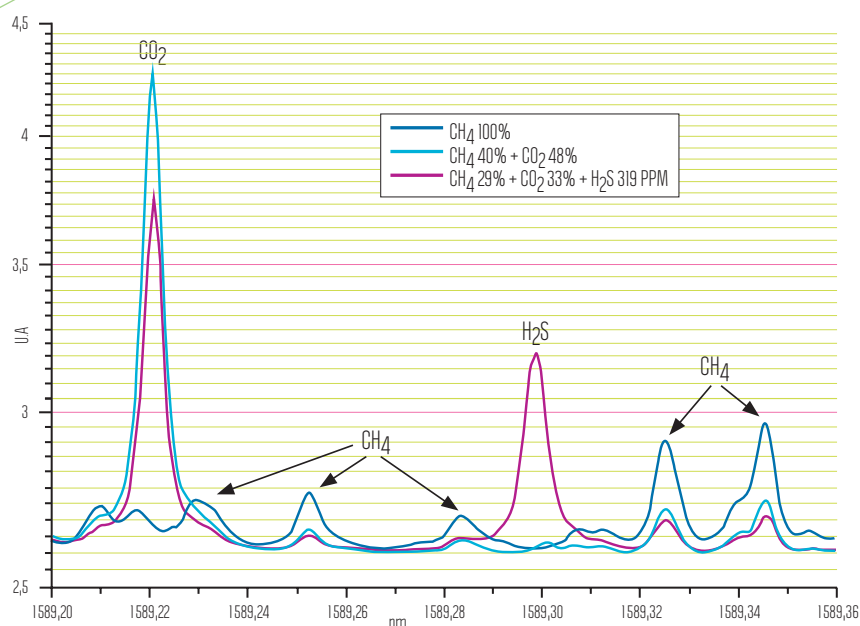
We develop, industrialize, sell and commission innovative analytical solutions for customers such as laboratories and industrials.

Through its ecoconception and integrated/patented innovations, AP2E infra-red light laser spectrometry analyzers revolutionize the industrial gas analysis thanks to :

- ◀ **A low pressure sampling system** avoiding the condensation phenomenon, reducing the installation /maintenance costs of our measurement systems, while preserving a fast response time of only a few seconds
- ◀ **An innovative laser technology** featuring unique analytical performances (from sub-ppb to %) within simple or complex gas mixtures.

**AP2E** proposes a real industrial process optimization tool and guarantees a short return on investment. Moreover, AP2E assures the personnel safety and the environmental protection.





BIOGAS CHARACTERIZATION SPECTRUM

## SOME KEY DATES

### 2010

- "R&D 100" award (USA).
- Industrial analysis prize in the "Mesures" magazine technology award.
- Contract with DCNS to supply 300 analyzers to control the indoor air quality inside submarines.

### 2012

- ProCeas selected as the best industrial technology to measure greenhouse gas generated by combustion engines (EPA source).
- Contract with Sensors to supply 200 analyzers to control combustion gas emissions (automotive).

### 2014

#### Four new applications :

- Burners control and combustion optimization (CO/O<sub>2</sub> analysis)
- H<sub>2</sub>S control in biogas
- SO<sub>3</sub> control (combustion and catalyst)
- Continuous measurement of formaldehyde in indoor air

#### OUR COMPANY IN A FEW FIGURES

- 40** years experience in on-line gas analysis
- 2** patents OFCEAS (infra-red light laser technology-feedback) and LPS (Low Pressure Sampling for gas extraction and transportation)
- 5** R&D units (chemistry, optics, electronics, mechanics and IT)
- 25** employees including 15 engineers/Phd's
- 400** ProCeas analyzers in the world
- 30** measured gas

## ANALYZED GAS TABLE\*

Measured gases					
Diatomic	H <sub>2</sub>	O <sub>2</sub>			
Nitrogen	NH <sub>3</sub>	NO	N <sub>2</sub> O	NO <sub>2</sub>	HCN
Sulfur	H <sub>2</sub> S	COS	CS <sub>2</sub>		
Oxides	SO <sub>2</sub>	SO <sub>3</sub>	CO	CO <sub>2</sub>	H <sub>2</sub> O
Halogenides	HF	HBr	HCl		
Alcohols	CH <sub>3</sub> OH	C <sub>2</sub> H <sub>5</sub> OH			
Aldehydes	CH <sub>2</sub> O	C <sub>2</sub> H <sub>4</sub> O			
Hydrocarbons	CH <sub>4</sub>	C <sub>2</sub> H <sub>2</sub>	C <sub>2</sub> H <sub>4</sub>	C <sub>2</sub> H <sub>6</sub>	

\*Non-exhaustive list

## APPLICATIONS/MARKET

- Incinerators (compliant to standard EN15267-3 : 2008 and to QAL 1 of EN 14181)
- Automotive combustion
- Combustion optimization (refineries)
- Catalysts
- Pure gases
- Chemical, petrochemical, nuclear
- Biogas, Oil&Gas
- Indoor air (formaldehyde)
- Food-processing
- R&D laboratories



## THEY TRUST US

### FRANCE

DCNS, Véolia, Areva, Secauto, Total, Air liquide, Saint-Gobain, CEA, Arcelor, Nestlé, SAVE, Arkema, IRSN, Suez, Fives Pillard, SIAAP...

### INTERNATIONAL

ExxonMobil, Sensors-Inc, Siemens, MIDREX, Praxair, Terrabon...

240, rue Louis de Broglie  
Les Méridiens Bât A  
F-13593 Aix-en-Provence Cedex  
Tel : +33 (0)4 42 61 29 40

info@ap2e.com



www.ap2e.com