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SULF U.V. SL

SULF U.V. Simplified Liquid mode **for...**

Version 2004 with AF22M

...Low Sulphur Contents...

*Down to **0,1 mg/kg***

...By U.V. Fluorescence

Accurate, Reliable and Simple Method



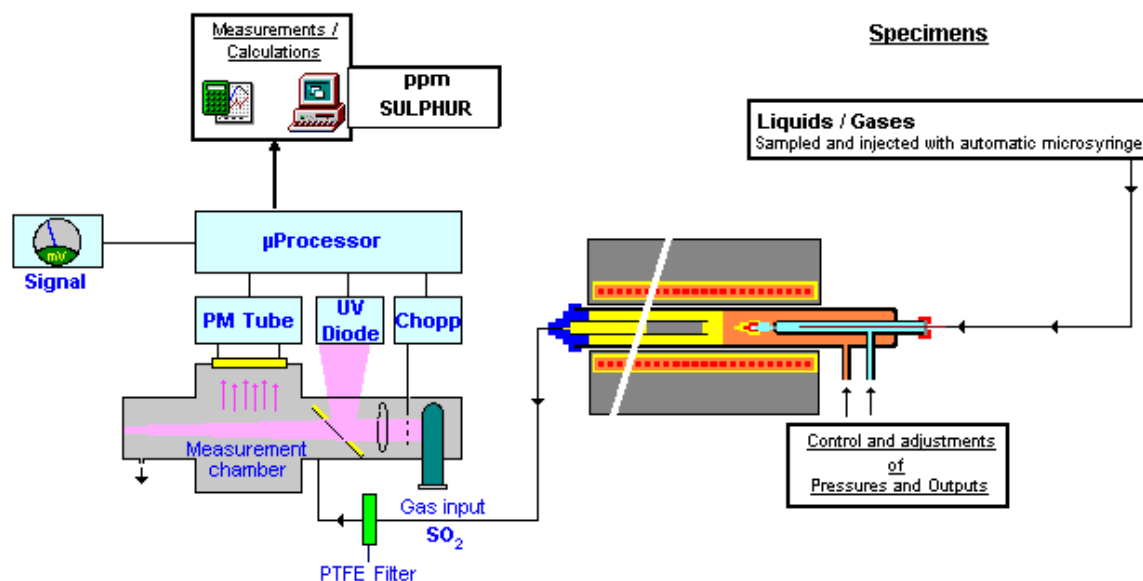
(Photo : analyser with liquid autosampler, without associated computer)

APPLICATIONS

Liquid and gaseous products, mainly petroleum products, and also any organic product compatible with the method (gasoline, diesel oil, solvents...).

PRINCIPLE

Mineralisation in gaseous phase of sulphur compounds forming SO₂ molecules detected by ultraviolet fluorescence (a photomultiplier tube measures ultraviolet radiation emitted when excited SO₂ molecules return to base).



EQUIPMENT

MINERALIZATION PART :

- a quartz tube
- a combustion furnace at a constant controlled temperature of 1000°C for oxidation S → SO₂ with injection under inert gas at 700°C.

GAS CONTROL PART :

Circuits for flow and pressure control and adjustment of useful gases for analysis (Inert gas and Oxygen).

SO₂ MEASUREMENT PART :

A specific detector of SO₂ by U.V. fluorescence.

SIGNAL / CALCULATION / STORAGE PROCESSING PART

An associated computer manages :

- SO₂ peaks integration
- calculation of calibration coefficients
- display of analysis results
- storage on hard disk
- automation and alarms.
- a colour printer.

ACCESSORIES PART :

- Syringe-pusher (basic version)
- Liquid automatic sampler (option)
- Liquid automatic injector (option)
- Gas / LPG sampler (option)

TECHNICAL CHARACTERISTICS

Measurement range : from 0.1 mg/kg to about 500 mg/kg (according to products)

Accuracy : at 0.5 mg/kg level : ± 0.05 mg/kg
at 500 mg/kg level : ± 7 mg/kg

In some particular conditions of using, obtained performances may be notably better than those given.

Minimum maintenance and easy to operate

Video monitor displays SO₂ peak as soon as the test starts

Results (calibration or analysis) are automatically calculated at the end of the test and then printed

Calibration in "one point (coefficient)" or "multipoint (linear regression)" mode, selection by button

Supply :
Gases : Argon (99,9995%) and Oxygen (99,98%)
Electricity : 220 V - 50 Hz – 1200 W

Dimensions : breadth 81 cm, height 48 cm, depth 56 cm, weight ≈ 50 kg (without computer)

Sample size : liquids : 20 to 100 μl (syringe)
Gas : 1 to 25 ml (syringe)

Mean analysis time :
about 5 minutes for liquid or gaseous samples