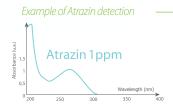
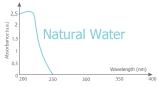
AQU LABO











THE OVERALL CONTEXT

SECOMAM and Alès Mines School designed a Compact Alarm System called STAC dedicated for this survey.

Using an innovative and patented technology, the STAC::

- Estimates the Organic Matter (COD, BOD, TOC), the TSS level and measures the nitrate concentration.
- Checks and detects undesirable substances (Pesticides, aromatic hydrocarbons..)

PRINCIPLE

Most of macro pollutants and mainly Organic Matters, TSS and Nitrates absorb in a specific way in the UV light spectrum.

By measuring the sample absorbance in the specific area of the UV spectrum, the STAC records the spectral profile of the sample, a true numerical picture of the water quality.





- Physical method with almost no consumable
- Very fast reading (< 5 minutes)
- Easy and low maintenance
- Both quantitative and qualitative reading
- Build in separates enclosures with aqueous sample isolated from electronics
- Fitting with most of tele-transmitable systems
- Fully automatic

Detector

- UV diode array spectrophotometer (204-323 nm) without any moving parts
- Pulsed deuterium source for a far UV high energy

Sampling

- Automatic and sequential sampling circuit rinsing and cuvette cleaning
- Programmable automatic sampling from 5 to 30 minutes
- Pinching valves Ø 8 mm for TSS reading without filtration

Date transfer

- Current loops
- RS 232
- UV-Pro software for data storage and UV spectrum management

ANALYZER SM ANALYZER CLEANING DISTILLED WATER WASTE RAW WATER ASPIRATION

Casing

- 1- Control box: 300 x 300 x 170 mm, Weight: 3 Kg, Protection IP 65
- 2- Fluidic box: 300 x 300 x 170 mm, Weight: 3 Kg, Protection IP 65
- 3- Polychromator box: 280 x 190 x 180 mm, Weight: 3 Kg, Protection IP 66/65

MEASURING RANGE

Correlation with Organic Matter:

- COD: 2 to 8750 mg/L
- BOD: 0.5 to 8750 mg/L
- •TOC: 1 to 7500 mg/L
- •TSS:5 to 2500 mg/L

• Nitrates measurement:

• NO₃: 1 to 1000 mg/L

• Undesirable substances detection:

• Components: 2,4 D, DIURON, CHLORPYRIPHOS, ATRAZINE 200, AMINOTRIAZOLE, PARAQUAT, DIAZINON, AZULENE, HEXAZINONE, DIQUAT, BENTAZONE, AROMATIC HYDROCARBONS

ORDERING INFORMATION

- 70MP0454: STAC Analyzer*
- 70MP0539: 2mm optical pathlength flowcell
- 70MP0538: 5mm optical pathlength flowcell
- * Instrument delivered without cell, to be ordered separately (ref. 70MP0539 or ref. 70MP0538)



