



**HEFER SYSTEMS & CONTROLS LTD.**

- WATER & WASTE WATER TECHNOLOGIES
- PROCESS ANALYTICAL EQUIPMENT

# UV400

## On-line water analyser



### Parameters

- UV254 (COD)
- Nitrate
- Ammonia
- Hydrocarbons
- H<sub>2</sub>S
- Chlorophyll A
- Rhodamine
- Phosphate
- Turbidity
- Conductivity
- pH / ORP
- Dissolved Oxygen
- Colour

The UV400 is the new generation of on-line water analyser launched by Hefer Systems & Controls Ltd.

It offers the possibility to measure by UV spectroscopy several parameters such as organic matters, nitrates, ammonia, hydrocarbons, H<sub>2</sub>S, chlorophyll A and rhodamine. This method is well-known for its unparalleled reliability and good stability with an extremely low operating cost.

In order to complete its offer, this analyser integrates at the same time the phosphate analysis by colorimetry, the turbidity by IR nephelometry and external probes for conductivity, pH and dissolved oxygen measurements.

## Applications

In waste water treatment plants, the elimination process of nitrogen compounds is mainly done by biological treatments. The optimisation of this process can be improved by measuring the nitrates and ammonia by UV spectroscopy instead of dissolved oxygen measurement.

New regulations oblige factories to monitor the hydrocarbons concentration in their stormwater runoff. The fluorescence method offers a good selectivity.

The production of drinking water from surface water requires an addition of coagulant to eliminate the organic matter.

In order to optimize this process, a coagulant pump can be monitored according to the COD concentration correlated to absorption at 254nm. Physico-chemical probes can be added to complete the analysis.

