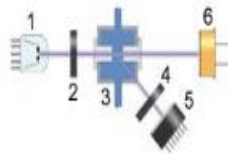


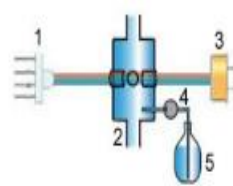
#### UV ABSORBANCE SPECTROSCOPY

- 1 : xenon lamps,
- 2 : flow cell,
- 3 : beam splitter,
- 4 : peak filter,
- 5 : peak detector,
- 6 : reference filter,
- 7 : reference detector



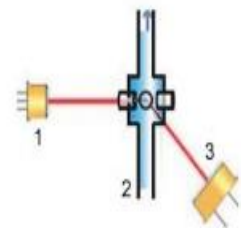
#### UV FLUORESCENCE PRINCIPLE

- 1 : xenon lamps,
- 2 : excitation filter,
- 3 : flow cell,
- 4 : emission filter,
- 5 : photomultiplier,
- 6 : reference photo detector



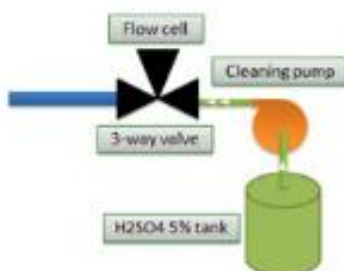
#### COLORIMETRIC METHOD PRINCIPLE

- 1 : led,
- 2 : flow cell,
- 3 : photo detector,
- 4 : reagent pump,
- 5 : reagent tank



#### LASER DIODE TURBIDITY PRINCIPAL (NEPHELOMETRIC)

- 1 : Laser diode (650 nm or 850 nm),
- 2 : flow cell,
- 3 : Photo detector



#### AUTO CLEANING PRINCIPLE

- 1 : Auto Cleaning Technique,
- 2 : 5%  $H_2SO_4$  Solution,
- 3 : Adjustable auto-cleaning period,
- 4 : Auto zero done on cleaning solution

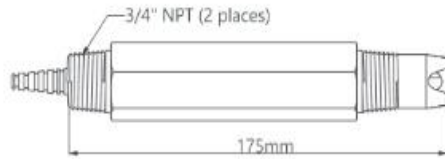


#### PATENTED FLOW CELL

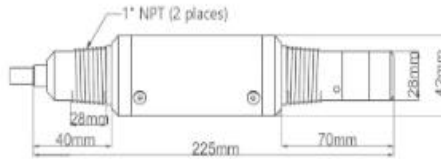
- 1 : Allows very high level of suspended solid without clogging for all the optical measurements making it suitable for industrial & municipal waste water application. [More...](#)

## ROBUST INDUSTRIAL PROBES

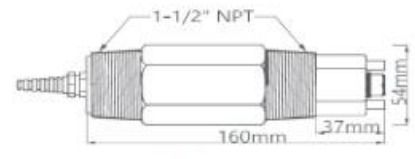
All the probes are specially designed for harsh environments with high level of suspended solid.



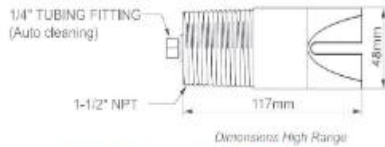
ORP/pH Probe



Dissolved Oxygen Probe



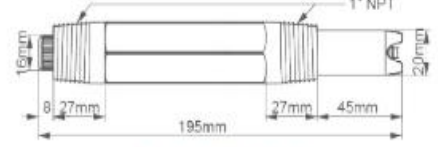
pH Differential Probe



Total Suspended Solid Probe



Turbidity Probe



Conductivity Probe

## USER-FRIENDLY INTERFACE



Note: Click on image to view it large.

The colour touch screen and intuitive interface available in 8 different languages (Chinese, English, French, German, Italian, Portuguese, Spanish, Turkish) makes very easy to test or configure the analyser. Many test functions allows to test and troubleshoot each element of the analysers (light signal, pumps, solenoid valves, etc...) to setup quickly a maintenance diagnostic.

## COMMUNICATION



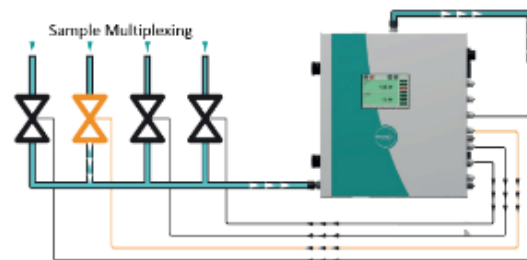
The RS232 port supports the MODBUS protocol to transmit each Standard channel value to a SCADA system. Additional parameters are available like status code, error code, calibration values and pumps run time. Basic 4-20 mA output modules can be plugged on the main board for each Standard channel, in the limit of 12 modules. A USB port enables to download on any USB key the last 5000 recorded measurements as well as a diagnostic file containing the configuration and useful information for remote troubleshooting. The new web interface makes possible to drive remotely the analyser from any computer, tablet or i-phone with a web browser. For this, an optional Wi-Fi or Ethernet module is added inside the analyser to connect it to an existing network with an internet gateway. The recorded measurements file can be imported to Excel for graphs or other treatments. The software of the analyser can be upgraded by connecting a USB key.

## MULTIPLEXING SYSTEM

When different streams need to be analysed, for example inlet and outlet of a plant, an optional multiplexing system delivers relay contacts to control external electric-valves or external pumps.

### Up to 6 different streams can be selected

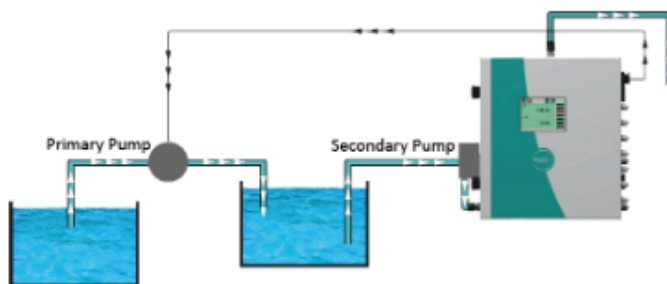
The Standard channels can be either duplicated (each one having its own 4-20mA output or MODBUS register), or measured sequentially to fit with the maximum of 16 Standard channels (a MODBUS register tells which stream is currently being measured).



## SAMPLING SYSTEM

The UV300 can adapt to many different kind of sampling depending of the application : surface water, drinking water, process water or wastewater.

If the water is already pressurized, the sample can be admitted directly inside the analyser with a maximal pressure of 4 bars. Otherwise an optional built-in peristaltic pump, synchronised with the measurement to extend the tubing life time, allows to take the sample directly from a tank located up to 6 meters below the analyser. For demanding applications with long distances, another peristaltic pump in a separate enclosure is proposed as an option. For some applications on river water or wastewater where two sampling pumps are necessary, the UV300 delivers a relay contact to synchronise the primary pump. The delay and running time of each pump can be adjusted easily in the parameters menu of the analyser.



## UV300 DIMENSIONAL DRAWING

