

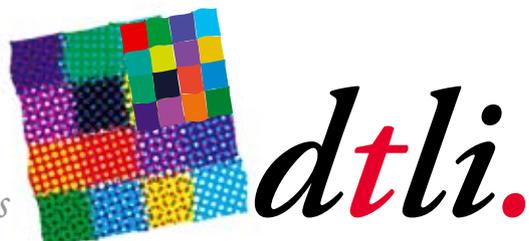


CT200

ON-LINE UV COD* ANALYSER

- *Alternative method in accordance with AFNOR X PT 90-210 and DIN38404-C3 standards
- No reagent
- Measurement within 5 seconds
- Usable with unfiltered water
- Compact size

*datalink
instruments*



On-line COD (Chemical Oxygen Demand) analysis has become essential to uphold the environmental and sanitary regulations for all kinds of water: rivers and underground water, drinking water, industrial effluent, sewage.

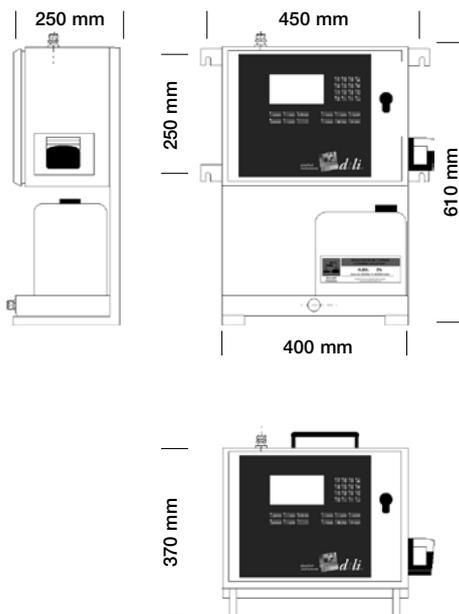
Reliability and stability are the main requirements of on-line analysis systems only achieved by UV spectroscopy.

MAIN APPLICATIONS

- Coagulant injection control in drinking water treatment plants
- COD control of industrial waste water
- Rain water monitoring on industrial plants
- Sewage works
- River surveys

VERY LOW OPERATING COSTS

The UV spectroscopy measuring principle requires no chemical reagent or calibration solutions resulting in very low operating and maintenance costs.



NO FILTRATION

Thanks to simple and large bore tubing, turbid water with particles in suspension can be monitored without clogging risks. An optical turbidity compensation maintains correct measurements.

AUTOMATIC CLEANING SYSTEM

A fully automated cleaning system prevents the measurement flow cell from becoming dirty, giving the analyser autonomy for several weeks without maintenance. The cleaning solution (5% sulphuric acid) should be renewed once a month.

XENON LAMP

The xenon lamp has a lifetime of 10⁹ flashes, equivalent to 10 years of use with one measurement every minute.

BUILT-IN PERISTALTIC PUMP

When the water is not pressurised (rivers, effluents, sewage), a peristaltic pump can be added to the analyser. It is synchronized with the measurements to increase the lifetime of the tubes.

BATTERY/MAINS POWER SUPPLY

For field measurements or isolated sites, a 12V built-in battery can make the analyser autonomous for about 100 measurements.

For plant applications, the battery provides total immunity against mains disturbances or power cuts, even over a long period.

BUILT-IN DATALOGGER

The measurements are dated and stored in a static memory with a capacity of more than 10,000 measurements.

They can be transferred later via the RS232 port on a PC without specific software using Hyperterminal® of Windows®.

The data are compatible with standard worksheets, particularly Excel® to obtain graphs easily.

GRAPHIC DISPLAY

Measurements can be displayed on the graphic screen showing all data obtained during one hour, one day, one week, one month or one year.

During the measurement cycle, a moving synoptic shows the operation sequence.

Range:	CT200-10: 0 - 100 Abs/m (rivers, drinking water) CT200-1 : 0 - 1000 Abs/m (waste water)
Repeatability at 10 Abs/m:	+/- 0.1 Abs/m typical (CT200-10)
Repeatability at 100 Abs/m:	+/- 1 Abs/m typical (CT200-1)
Initial calibration:	+/- 2% typical
Sample input/output:	Stainless steel fitting for plastic tube external Ø 12 mm
Pressure:	Maximum 5 Bar
Flow:	0 - 5 L/mn, typical 0.5 L/mn
Sample temperature:	> 0°C - 60°C
Outputs:	4-20 mA insulated, 12 bit resolution High and low threshold relays
Communication:	Port 1: RS232 for PC or modem or MODBUS, Port 2: RS232 for on-line printer
Power supply:	110-120V / 220-240V 50/60 Hz 30VA + built-in 12V battery
Casing:	Watertight IP559 Ambient temperature: > 0°C - 60°C
Weight:	13 Kg /18 Kg without/with cleaning system
Standards:	CE Conformity - EN50081-2, EN50082-2, EN55011, DIN 38404-C3
Optional:	<ul style="list-style-type: none"> ■ Peristaltic sampling pump ■ Measurement remote control ■ 4 channels multiplexing system ■ Nitrate measurement ■ UV turbidity measurement ■ EC measurement ■ pH measurement ■ Modem board

