



# 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

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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 10<sup>9</sup> 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.

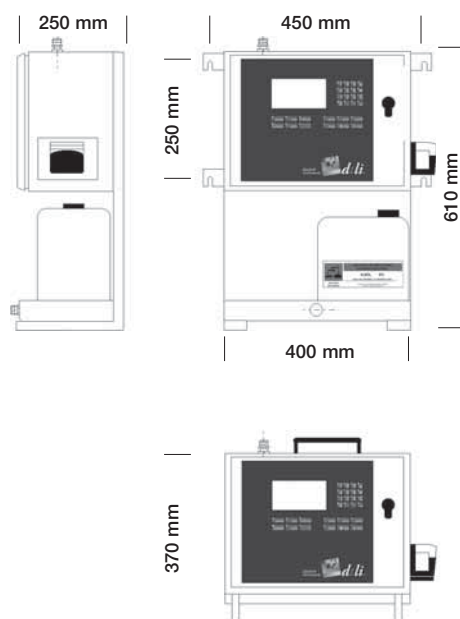
They can be transferred later via the RS232 port on a PC without specific software using Hyperterminal® of Windows®.

The data are compatible with standard work-sheets, 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.



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

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dtli.

36 A rue des Vingt Toises  
38950 Saint-Martin-le-Vinoux  
tel. +33 (0) 4 76 94 90 83  
fax +33 (0) 4 76 94 18 14  
e-mail: datalink-instruments@wanadoo.fr  
www.datalink-instruments.com