



## On-line UV COD Analyser CT200

### CT200

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

- Measurement method: UV spectroscopy
- Alternative method in accordance with AFNOR X PT 90-210 – DIN38404-C3 standards.
- No reagent
- Measurement within 5 seconds
- Usable with unfiltered water
- Compact size



<b>Features:</b>
<u>Measurement within 5 seconds</u> Measurement time is very fast.
<u>Very low operating costs</u> The UV spectroscopy measuring principle requires no chemical reagent or calibration solution resulting in very low operating and maintenance costs.
<u>Warranty</u> 2 years
<u>Main applications</u> <ul style="list-style-type: none"><li>● Coagulant injection control in drinking water treatment plants</li><li>● COD control of industrial waste water</li><li>● Rain water monitoring on industrial plants</li><li>● Sewage works</li><li>● River surveys</li></ul>
<u>Automatic Cleaning System</u> 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.
<u>Built-in peristaltic pump</u> 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.
<u>Battery/mains power supply</u> 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.
<u>Built-in datalogger</u> 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.
<u>Graphic display</u> 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.
<u>Reduced sizes</u> Fixed installations: 400 x 610 x 250 mm, weight 18 Kg. Portable: 400 x 370 x 250 mm, weight 13 Kg.



## Technical specifications CT200

<b>Measurement method:</b>	UV Spectroscopy	<b>Sizes:</b>	400 x 610 x 250 mm 400 x 370 x 250 mm (portable version)
<b>Range:</b>	CT200-10: 0-100 Abs/m (rivers, drinking water) CT200-1: 0-1000 Abs/m (waste water)	<b>Weight:</b>	18 Kg fixed installations 13 Kg portable version
<b>Repeatability at 10 Abs/m:</b>	± 0,1 Abs/m (CT200-10)	<b>Power supply:</b>	110-120 V / 220-240 V 50/60 Hz 30 VA + built-in 12 V battery
<b>Repeatability at 100 Abs/m:</b>	± 1 Abs/m (CT200-1)	<b>Standards:</b>	CE – EN50081-2 – EN50082-2 – EN55011 – DIN 38404-C3
<b>Sample input/output:</b>	Stainless steel fitting for plastic tube external Ø 12 mm	<b>Cleaning solution:</b>	Sulphuric acid 5%
<b>Sample pressure:</b>	Maximum 5 bar	<b>Outputs:</b>	4-20 mA insulated, 12 bit resolution. High and low threshold relays
<b>Flow:</b>	0-5 l/min, typical 0,5 l/min	<b>Communication:</b>	Port 1:RS232 for PC or modem or MODBUS Port 2: RS232 for on-line printer
<b>Sample temperature:</b>	> 0-60°C	<b>Alarms:</b>	High and low threshold relays
<b>Ambient Temperature /humidity:</b>	> 0-60°C - 0-90%	<b>Display:</b>	Graphic display
		<b>Protection:</b>	IP 55

Subject to change without notice

### Options:

- Peristaltic sampling pump
- Measurement remote control
- 4 channels multiplexing system
- Nitrate measurement
- UV turbidity measurement
- EC measurement
- pH measurement
- Modem board