NT200

ON-LINE NITRATE ANALYSER

- Long range stability thanks to UV spectroscopy
- No reagent
- Measurement within 5 seconds
- Usable with unfiltered water
- Compact size

datalink instruments dtli.

On-line nitrate 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 spectrocopy.

MAIN APPLICATIONS
- River surveys
- Drinking water mixing
- Nitrate removal plants
- Sewage works

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 10^9 flashes, equivalent to 10 years of use with one measurement every minute.

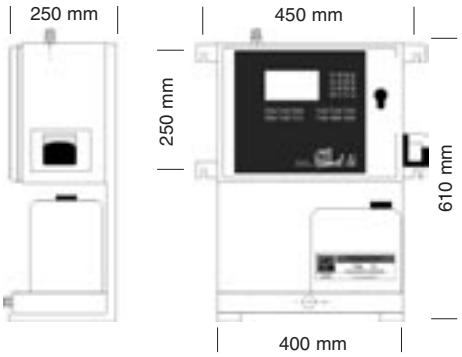
BUILT-IN PERISTALTIC PUMP
When the water is not pressurised (rivers, effluents, sewage), a peristaltic pump can be added to the analyser. It is synchronized with the measurements to increase the lifetime of the tubes.

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 tranferred 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:	0 - 250 mg/l NO_3^- (0 - 50 mg/l N of NO_3^-), other ranges on request
Repeatability at 50 mg/l:	+/- 0.1 mg/l NO_3^- typical
Repeatability at 100mg/l:	+/- 0.3 mg/l NO_3^-typical
Initial calibration (0-100mg/l):	+/- 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
Optional:	■ Peristaltic sampling pump ■ Measurement remote control ■ 4 channels multiplexing system ■ UV COD measurement ■ UV turbidity measurement ■ EC measurement ■ pH measurement ■ Modem board

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