Ammonit 200

MULTI PURPOSE ANALYSIS
NH_4^+, NO_3^-, DCO UV* ON-LINE

- *Alternative method as per AFNOR X PT90-210 et DIN 38404-C3 standards
- Exclusive technology using UV spectroscopy
- Large measurement range
- Compact size

datalink instruments dtli.

Ammonit 200™ allows in one machine COD, Nitrates and ammonium ions analysis in water. The exclusive technology is based on the analysis of the UV absorption spectrum of detected chemical species.

The very high reliability of spectroscopy complies with requirements of European regulations regarding detection limits and accuracy in waste water as well as in drinking water.

MAIN APPLICATIONS
- Drinking water
- Urban and industrial waste waters
- Industrial effluents control
- Rain water survey
- River water survey

VERY LOW OPERATION COST
No reagent is required for NO3 and COD measurements. A very small amount of caustic soda is required for the measurement of Ammonium ions concentration.

The analyser is steady and no short term calibration is required.

The automatic cleaning facility ensures the daily maintenance.

NO WATER FILTRATION
Thanks to large bore tubing and hydraulic circuitry easy to maintain, the analyser is well suited for dirty or high TSS water operation without clogging.

For Nitrates and COD measurements, an automatic turbidity compensation grants a high steadiness level.

The ammonium parameter is measured in gas phase. No interference occurs even in highly turbid water or coloured effluents.

AUTOMATIC CLEANING FACILITY
The hydraulic circuitry is kept clean over several weeks without any user operation, thanks to the automatic cleaning system. A soft acid solution is automatically flown through the measurement cell once a day in order to remove any parasitic deposition on optical parts.

XENON LAMP
The xenon lamp is granted for more than 10^9 flashes autonomy, offering more than 10 years life time.

SAMPLING PUMP
An optional peristaltic sampling pump is proposed for applications in non pressured waters. The pump operation is controlled by the analyser itself.

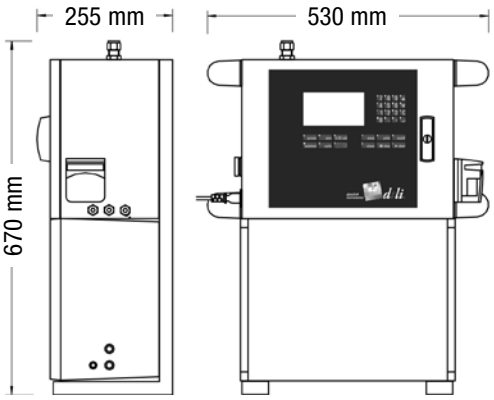
BUILT-IN DATALOGGER
All measurement results are stored in the memory of the analyser. The storing capacity is about 10000 values that can be downloaded on a PC through an RS232 or RS485 output.

RELAYS AND ANALOG OUTPUTS
Up to 4 analog outputs (4 - 20 mA) are available on AMMONIT200.

Alarm and default relays are also available.

ELECTRICAL POWER
110 – 240 VAC 50/60Hz or 12 VDC.

DISPLAY
A LCD screen displays the measurement result as well as a graph showing the last measurements stored over the previous hour, the current day, the week, the month or the year.



Measurement range :	
Ammonium	0 – 10 and 0 – 500 mg/l NH_4^+
Nitrate	0 – 250 mg/l NO_3^- 0 – 50 mg/l $N\text{-}NO_3^-$ Other ranges on request
COD	0 – 1000 mg/l (0 – 300 Abs/m) Other ranges on request
Detection limit :	
Ammonium	± 0,1 mg/l NH_4^+
Nitrate	± 0,1 mg/l NO_3^-
COD	± 0,1 Abs/m
Sample input/output :	SS fitting for 12mm ext. tubing.
Pressure :	Maximum 2 bar
Sample temperature :	> 0°C / 30°C
Analog outputs :	4-20 mA isolated, 12 bit resolution
Relays outputs :	Threshold alarm relays and default relay
Communication :	RS232 or RS485 for stored values downloading
Power supply :	110 – 240 VAC / 50 - 60Hz / 30 VA ou 12VDC
Housing :	Etanche IP55
	Operation temperature > 0°C / 60°C
Weight :	20 Kg
Option :	2 streams multiplexing system

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