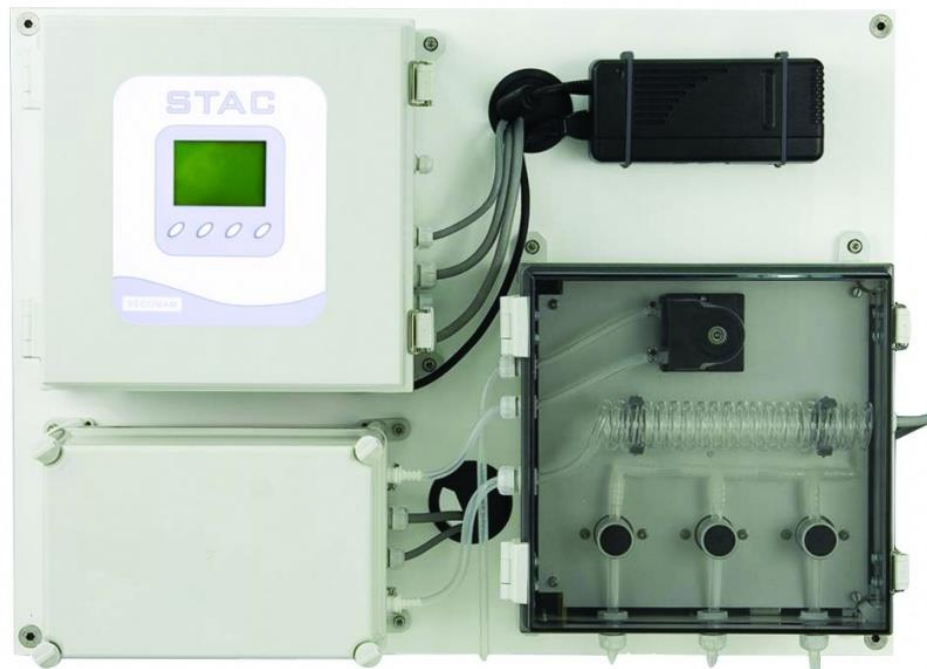




ADVANCED SOLUTIONS FOR WATER SECURITY

Aqualabo: Environment Measuring Range



The AQUALABO STAC is a compact on-line UV absorbance analyser, capable of monitoring TOC, BOD, COD, TSS and Nitrate, using an innovative and patented technology.

STAC: Online Analyzer for COD BOD TOC TSS NO3

Key Features

- Physical method with almost no consumable
- Very fast reading (< 5 minutes)
- Minimal maintenance
- Both quantitative and qualitative reading
- Build in separates enclosures with aqueous sample isolated from electronics
- Fitting with most of tele-transmittable systems
- Fully automatic

Water Turbidity

The **STAC** measures Formazine suspensions to evaluate the maximum turbidity allowed. The maximum is defined at Abs=0.5

	NTU max
OPTICAL PATH = 2 mm	300
OPTICAL PATH = 5 mm	120
OPTICAL PATH = 50 mm	10

Flowthrough Cell Optical Path = 2mm

Detection threshold

	COD (mg/L)	BOD (mg/L)	TOC (mg/L)	NO ₃ (mg/L)	NO ₃ - N (mg/L)	TSS (mg/L)	Anionic detergent (mg/L)
Natural water (Nwat)	5.0	1.25	2.5	2.5	0.56	12.5	2.5
Output of biological WTP (Outb)	12.5	12.5	12.5	2.5	0.56	12.5	2.5
Output of physical WTP (Outp)	12.5	12.5	12.5	2.5	0.56	12.5	2.5
Inlet of municipal WTP (Infl)	25.0	12.5	25.0	2.5	0.56	25.0	2.5

Measuring range without dilution

Parameters	CONCENTRATION RANGE (mg/L)
COD	5.0 - 875
BOD	1.25 - 875
TOC	2.5 - 750
NO ₃	2.5 - 100
NO ₃ -N	0.56 - 22.58
TSS*	12.5 - 250
Anionic detergent	2.5 - 150

NOTE: The maximum measuring concentration can be multiplied by **10** if a dilution factor (max 10) is used.

**Max TSS level should not exceed 20mg/L otherwise the 2mm cell could be obstructed by large particles*

Flowthrough Cell Optical Path = 5mm

Detection threshold

	COD (mg/L)	BOD (mg/L)	TOC (mg/L)	NO ₃ (mg/L)	NO ₃ -N (mg/L)	TSS (mg/L)	Anionic detergent (mg/L)
Natural water (Nwat)	2.0	0.5	1.0	1.0	0.23	5.0	1.0
Output of biological WTP (Outb)	5.0	5.0	5.0	1.0	0.23	5.0	1.0
Output of physical WTP (Outp)	5.0	5.0	5.0	1.0	0.23	5.0	1.0
Inlet of municipal WTP (Infl)	10.0	5.0	10.0	1.0	0.23	10.0	1.0

Measuring range without dilution

Parameters	CONCENTRATION RANGE (mg/L)
COD	2.0 - 350
BOD	0.5 - 350
TOC	1.0 - 300
NO ₃	1.0 - 40
NO ₃ -N	0.23 - 9.03
TSS	5.0 - 100
Anionic detergent	1.0 - 60

NOTE: The maximum measuring concentration can be multiplied by **10** if a dilution factor (max 10) is used.

Flowthrough Cell Optical Path = 50mm

Detection threshold

	COD (mg/L)	BOD (mg/L)	TOC (mg/L)	NO ₃ (mg/L)	NO ₃ -N (mg/L)	TSS (mg/L)	Anionic detergent (mg/L)
Natural water (Nwat)	0.2	0.05	0.1	0.1	0.23	0.5	0.1
Output of biological WTP (Outb)	0.5	0.5	0.5	0.1	0.23	0.5	0.1
Output of physical WTP (Outp)	0.5	0.5	0.5	0.1	0.23	0.5	0.1
Inlet of municipal WTP (Infl)	1.0	0.5	1.0	0.1	0.23	1.0	0.1

Measuring range without dilution

Parameters	CONCENTRATION RANGE (mg/L)
COD	0.2 - 35
BOD	0.05 - 35
TOC	0.1 - 30
NO ₃	0.1 - 4
NO ₃ -N	0.02 - 0.9
TSS	0.5 - 10
Anionic detergent	0.1 - 6

NOTE: The maximum measuring concentration can be multiplied by **10** if a dilution factor (max 10) is used.

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