

# FSA-CT1000

UV COD and Turbidity Analyser



Optoseven 

# Measured Parameters

Analyser measures COD by correlation to UV-absorbance at 254 nm. Turbidity is measured at 850 nm by nephelometry scattering.

## Analyser Use

Optoseven FSA-CT1000 liquid analyser has a fully automatic operation. It does not need manual cleaning any other maintenance. User can set all the operation parameters from the user interface display panel.

## Analyser Top 10 Benefits

1. Manages in harsh conditions
2. Fully automatic operation
3. Reliable results without zero drift
4. Minimal cleaning agent consumption
5. No need for manual cleaning or other manual maintenance
6. Self diagnostics
7. Wide measuring range
8. Multipoint sampling
9. Comprehensive user interface
10. Modular design allows customer based modifications

## Customisation

Analyser can be tailored to meet the application requirements by using different optical wavelengths or optional measurement modules. With different optical setups, the analyser can measure e.g.

- Nitrate
- Algae
- Aromatics (PAH)

UV absorbance measurement	254 nm, or other freely selectable wavelength
▪ Measuring range	0-300 [1/m] Conversion to COD by correlation factor
▪ Repeatability	0.1 [1/m]
Turbidity measurement	850 nm nephelometry scattering
▪ Measuring range	0-1000 [NTU]
▪ Repeatability	0.05 [NTU]
Zero drift	0, automatically corrected
Measurement interval	Freely set from continuous to 1 point per day, 30 min typical
Optional measurement modules	Absorbance, Fluorescence and Scattering, (all with custom wave lengths)
Optional analogue inputs	4-20mA, 0-10V
Result outputs	Savings to MMC, Analogue outputs: 4-20mA with freely adjustable ranges, Field Busses are optional
Operation modes	Auto, Remote and Manual
Sample line max. length	20m, with option for longer lengths
Sample max. suction height	5m
Sample flow	< 100 ml/min
Pump life time	> 2 years of normal use
Light source life time	>10 years of normal use
Operation temperature	5-40 °C
Dimensions (h*w*d)	600*300*155 mm
Weight	10 kg
IP-Classification	IP65
Sample wetted parts	PFA teflon, Quartz glass, SS316, Novoprene
Operating voltage	24VDC
Power consumption	35W max.
Power source	110-240VAC 1,7Amax
Purge media	Water or air
Purge input pressure	2-8 Bar
Cleaning agent	Typically NaOH (5%)
Cleaning agent consumption	~1l/month, depending the application
Zero Calibration lines	1 pcs
Sample lines	1 pcs (Optional up to 4)
Span Calibration lines	0 pcs (Optional up to 4)

Other components and modifications as well as different external sensors are possible on request.