

# FSA-CT1000

UV COD and Turbidity Analyser



Optoseven 

# Measured Parameters

The analyser measures COD by correlation UV absorbance up to 20 g/l. Turbidity is measured by nephelometry scattering. Other components, e.g. lignin, TOC or color available on request.

## Analyser Use

Optoseven FSA-CT1000 liquid analyser is easy to use and fully automatic. It does not need manual cleaning, annual preventive maintenance only. User can set all the operation parameters from the user interface display panel.

## Analyser Benefits

- Reagent-free measurement method
- No hazardous waste is formed
- The results are ready in seconds
- Manages in harsh conditions
- Fully automatic operation
- Reliable results without zero drift
- Low operating costs
- Minimal cleaning agent consumption
- No need for manual cleaning or other manual maintenance
- Self diagnostics
- Wide measuring range
- Multipoint sampling option
- Comprehensive user interface
- Modular design allows customer based modifications

UV absorbance measurement	DIN 38404-3
• Measuring range	0–2000 [1/m] Conversion to COD by correlation factor
• Repeatability	0.1 [1/m]
Turbidity measurement	DIN EN ISO 7027
• 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	<20 kg
IP-Classification	IP55
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	Optional up to 4



Waste Water



Clean Water



Industrial Processes



Natural Water