NEREID In-Line

Online & Continuous Water Quality Monitoring System

”Shedding Light on the Unknown”

Highlights

- World 1st In-Line WQMS
- Industry IoT enabled
- Simplified source, Low OpEx and CapEx
- Monitoring capacity 100-500 m3/day
- 10-1000x more sensitive than UV-Vis
- Factory pre calibrated
- Integratable with other sensors such as Flow Meter, Conductivity and pH

Technical Specifications			
Measuring principle	Fluorescence Tech	**Weight (min.)**	1.38 Kg , 0.34 Kg
Automatic compensation	Integrated temperature and turbidity sensor	**NEREID (Ø x L)** **TRIDENT (Ø x L)**	125 x 137 x 175 mm 67 x 106 x 112 mm
Operating temperature	-5°C to 75°C	**Housing material**	Recyclable plastic
Power consumption	Max 1.0 W	**Installation/Mounting**	In-Line (¾” pipe)
Power supply	AC, 14-24 VDC	**Cable length**	5m, 15m, 25m
Communications	RS485, WiFi, Celular	**Protection class**	IP67
Data Analysis, Visualisation	NEREUS Cloud	**Periodic Maintenance**	7-12 months

Parameters	Unit	Range		Accuracy
		Min	Max	
Microplastics **	Particle/L	0	10	10%
BTEX (Refined Oil)	mg/L , ppm	0	20	Linearity of 0.95 R^2
PAHs (Crude Oil)	µg/L , ppb	0	3000	Linearity of 0.95 R^2
Turbidity *	FNU	0	4000	0.01
Temperature	°C	-5	+75	0.01
BOD	mg/L	0	500	Linearity of 0.95 R^2
COD	mg/L	0 0	1000 8000	Linearity of 0.91 R^2
TOC	mg/L	0	500	Linearity of 0.90 R^2

* Compliance: ISO 7027-1:2016
** for particles less than 500µm

Applications

- Smart Cities
- Sewage treatment plant
- Drinking water
- Industrial Wastewater
- Surface water, groundwater
- Food and beverage industry
- Airports wastewater
- Pharmaceutical industry
- Chemical and petrochemical
- Energy industry
- Oil and gas industry
- Pulp and paper
- Metallurgy and mining
- Ships wastewater

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