

# UNIPHOS

## UV-COD & TSS Analyser



### Features

- Automatic cleaning of probe with compressed air provides higher reliability than the mechanical blade
- No reagents
- Low operating cost
- No secondary pollution
- Fast response, suitable for online real time measurements
- No chloride ion interference



### Applications

- Effluent Treatment Plant
- Drinking Water Monitoring
- Industrial Process Waste Water Monitoring



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*Due to continuing development we reserve the right to change specifications without prior notice.*

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#### Manufactured By:

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Uniphos Online UV – COD & TSS Analyser measures COD, BOD & TSS of surface water, ground water, municipal water, industrial wastewater etc. It uses a light source & UV detector to measure in real time the above-mentioned water pollutants using absorption spectroscopic technique. It provides fast response and requires no chemicals for measurements. Its reliable electronics and sensor assembly ensures low cost of ownership for users.

The UV-COD and TSS Probe is supplied along with the controller which has a touch screen HMI for setting and display of various parameters. It incorporates a built-in solenoid valve for auto purging / cleaning the sensors. The analyser is also programmed to display BOD value for a known matrix.

### SPECIFICATIONS

Detection Principle	Optical absorption COD: 254 nm and TSS: 860 nm
Range	COD: 0-400mg/L BOD: 0-400mg/L TSS: 0-100 NTU (also available in mg/l)
Accuracy	+/- 10% (reading)
Zero Drift	< 1% FS
Response Time:	10 seconds
Calibration:	Calibration with KHP for COD and Formazine standard for TSS.
Power requirement	DC 24 V for Probe, 230 V AC/ 50 Hz Uniphos Controller
Data communication	RS 485 (MODBUS-RTU Protocol) & 4-20 mA
Max. Load Resistance	500 $\Omega$ (on 4-20 mA O/P)
Display	4.3" TFT with touch screen (Uniphos Controller)
Body Material	SS 316
Operating Temp.	5 - 45 $^{\circ}$ C
Dimensions (H*L*B)	Probe: Diameter: 90 mm; Height: 320 mm Uniphos Controller: 260 X 160 X 90 mm
Instrument weight	Probe: 2.5 Kg , Uniphos Controller: 3.5 Kg