

The background of the entire image is a close-up, high-angle shot of teal-colored water with intricate, concentric ripples and small waves, creating a textured, shimmering effect. The color is a vibrant, slightly dark cyan or teal.

OPRUSS

[www.opruss.com](http://www.opruss.com)

## OPM300 / OPM200 ANALYZER

(Determinable Parameters COD, BOD<sub>c</sub>, TSS, TOC<sub>c</sub>)



The OPM300 Model *i* Analyser system is the perfect solution for precise online measurement of COD, TSS, BOD<sub>c</sub>, TOC<sub>c</sub> all at the same time. The UV-Vis Spectrophotometry based analyser, is a compact yet precise device for the Online Pollutant Monitoring system for water medium. It uses **Dual Beam Absorption Spectrophotometry** as a principle analysis method derived from Double Beam scanning of Ultraviolet and Visible light attenuation detecting presence of contaminants. The Analyser benefits include the absolute zero reagent use and ready for installing the system in outdoors. The model is specially designed for treated waste water applications where operating ranges are low but interferences are high. Having definitive range of operation the OPM300 is very precise relevant to applications like treated discharges of Effluent & Sewage treatment plants.

The Consumable-less and chemical-free spectral measurement allows a precise determination of the COD and Turbidity level.

### Features:

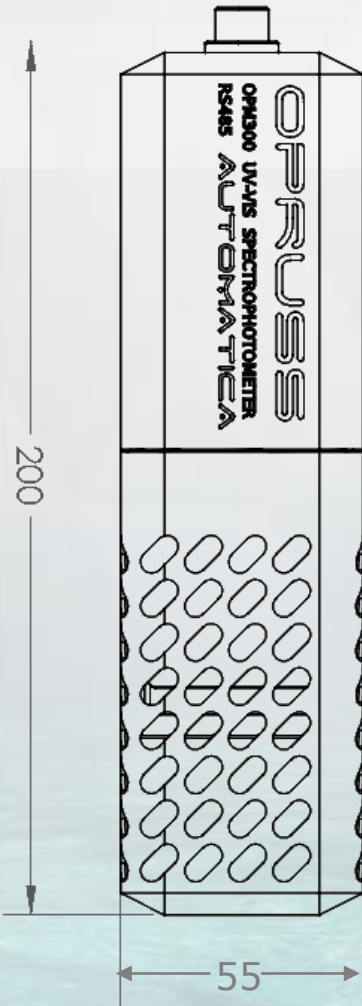
- Non-corrosive POM PEEK shell
- Built in interference cancellation
- Narrow bandwidth spectral scanning
- Shock proof sensor aperture
- Built in ACSC cleaning
- Adaptability to multiple water matrices
- Grill casing for protection while surface water deployment
- Repetitive Calibration-free, precise measurement. Having its smart system core of repetitive reference technology benefits the repeatable performance of OPM300 over prolonged period without regular calibration
- Zero effort maintenance-free cleaning system
- No external dependencies for operational or sensor aperture cleaning process

### Installation Methods:

- Medium immersed
  - Sites with challenges like a distant medium source from the point of controller mount, this method of installation can be chosen.
  - The analyser being constantly in contact with the medium helps the analyser to never face a dry-off situation
- Extractive
  - Where the sample is allowed to flow and exit the measuring conduit system similar to a standard stationed measuring device. Usually avoids the Constantine medium matrix as the sample with varying quality flows through the analyser rather than a partially stagnant volume of medium to achieve sharp data curves

\*Sample extraction accessory is required for this type

# OPRUSS AUTOMATICA



Name	Organic Pollutant Monitor
Model Name	OPM300/OPM200 Model /
Measurement methods	UV + VIS Spectrophotometer (Dual Beam Absorption Spectrophotometry) 200-350nm for Ultraviolet spectrum scanning 320-750nm for Visible spectrum scanning* <small>*Turbidity compensation at overlapping spectral bandwidth</small>
Measurement items	COD, BOD <sub>c</sub> , TSS, TOC <sub>c</sub>
Measurement range	COD (0-300 mg/l) BOD <sub>c</sub> (0-300 mg/l) TSS (0-300 mg/l) TOC <sub>c</sub> (0-100mg/l) *Expandable up to 1200mg /L
Measurement accuracy	OPM300 Within $\pm 5\%$ of full scale OPM200 Within $\pm 7\%$ of full scale
Measurement Repeat - Ability	OPM300 Within $\pm 5\%$ of full scale OPM200 Within $\pm 5\%$ of full scale
Measurement Linearity	OPM300 Within $\pm 5\%$ of full scale OPM200 Within $\pm 5\%$ of full scale
Measurement Stability	OPM300 Within $\pm 2\%$ of full scale OPM200 Within $\pm 2\%$ of full scale
Measurement interval	T90 in One Second, Data output within 1 minute
Resolution	0.01mg/L
Calibration	Multi point based automatic calibration. Standard calibration as per factory setting. Local calibration for adaptive environments. For COD compensation with respect to organics and inorganic proportions.
Cable length	10 m standard (Expandable up to 30m)
Sample minimum pressure	1 Bar
Power	230VAC $\pm 10\%$ , 50Hz
Output	RS485 Two way communication enabled
Protection class	IP68
Cleaning method	Advanced conductive surface cleaning
MOC	OPM300 Titanium Quartz POM SS316L OPM200 Quartz POM SS316L
Sensor diagnostics	Onboard Library for diagnostic commands available
Display	Anti-glare LCD Display – Touch Panel Type
Ambient operating Condition	Ambient Temperature 0-55°C Ambient Humidity 90% RH
Storage temperature	5~45°C
Background Data Input	Sample loss input Time correction input Flux Cancellation Input Temperature Compensation Input
Construction	For Outdoor Installation
Color/Finish	Standard material finish as per MOC
Installation Conditions	*Installation guide book to be referred

## KEY FEATURES FOR OPM SERIES SENSORS



**Accurate and high resolution Realtime measurements**



**Easy integration – Plug to Run design**



**Integrated digital display for Realtime Monitoring and Data logging for advanced analytics**



**Remarkably Low Maintenance operation.  
Built-in Sensor Diagnostics for smart access over sensor performance details via Two Way communication**



**Reliable and Robust operation to changing process conditions**



**Built-in Self-cleaning Mechanism**



**User Friendly Calibration**

BOD

$C_3H_6O$

COD

TOC

Cr

As

TDS

pH

$CH_2O$

OH

Cy

$NH_3$

$C_2H_4O$

$C_3H_8O$

$CH_3CO$

ORP



## DDT SMART CONTROLLER

📍 HO PTESPL Mumbai : 104/5, Kingston Tower, Opp. Viva College, Bypass Road, Virar (W) - 401 303, Maharashtra, India.

PTESPL Haryana : K-3, 1001, Ground Floor, Vatika ZNXT, Sector 83, Gurgaon

PTESPL Kolkata : 47, Park Circus Market, Kolkata 700016, West Bengal

☎ 0250-2519494 / 7756979879    ✉ info@ptespl.com    🌐 www.ptespl.com

Marketed By

**PT**  
ECOLOGICAL  
SERVICES PVT. LTD

[www.opruss.com](http://www.opruss.com)

Final product may vary with depicted images subjected to origin of requirement to adapt working conditions of the specific location of end user.