
OPRUSS
www.opruss.com

OPRUSS AUTOMATICA

OPM3000 ANALYZER

(Determinable Parameters **COD, BOD_c, TSS, TOC_c**)

OPM3000 is variant for water monitoring with an ability of scanning 180-750nm of light. With convenient features of robust structure, plug and play system and the self automatic cleaning function makes this variant, leader in its comparative class. The extensive use for this variant includes measuring quality indexes in water including COD, BOD and turbidity with a comparatively higher range of individual parameters. Field applications being surface water, lightly polluted underground water and municipal sewage.

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

Features:

- Non-corrosive POM PEEK TITANIUM 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 OPM3000 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

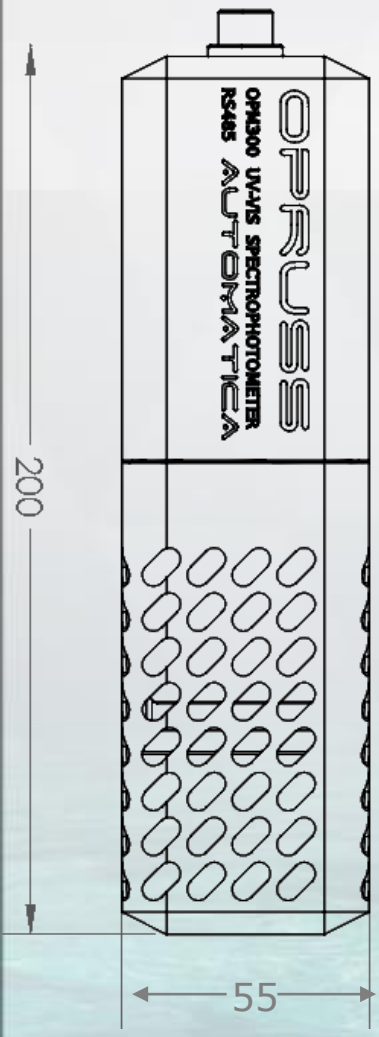
- Sites with challenges like a distant medium source from the point of controller mount, this method of installation can be chosen.
- The analyser being constantly in contact with the medium helps the analyser to never face a dry-off situation

➢ 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 variating 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	OPM3000
Measurement methods	UV + VIS Spectrophotometer (Dual Beam Absorption Spectrophotometry) 180-350nm for Ultraviolet spectrum scanning 320-750nm for Visible spectrum scanning* *Turbidity compensation at overlapping spectral bandwidth
Measurement items	COD, BOD_c, TSS, TOC_c
Measurement range	COD (0-10000-30000 mg/l) BOD_c (0-10000-30000 mg/l) TSS (0-10000-30000 mg/l) TOC_c (0-5000-10000mg/l)
Measurement accuracy	Within ± 2% of full scale
Measurement Repeat - Ability	Within ± 5% of full scale
Measurement Linearity	Within ± 5% of full scale
Measurement Stability	Within ± 2% of full scale
Measurement interval	T90 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±10%, 50Hz
Output	RS485 Two way communication enabled
Photo incident Source	UV + Vis entire spectral Light incidence Xenon source
Protection class	Ingress Protection IP68 EMC Conformity with EN61323-1, EN61010-1
Cleaning method	Advanced conductive surface cleaning / Compressed Air Cleaning
MOC	Titanium 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 Integral material finish as per MOC
Installation Conditions	*Installation guide book to be referred

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

OPRUSS AUTOMATICA

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

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

ECOLOGICAL SERVICES PVT. LTD

www.opruss.com