

ONLINE BOD / COD / TSS / TOC MONITORING SYSTEM MODEL T-BCTT



TOSHCON offers innovative technical products with our expertise in the fields of electronics, optics, mechanics and computer programming systems.

Our **Environment Department** is specialized in **online monitoring system of water quality or effluent management** by parameter measurements.

UV Probe system enables online measurements and real-time monitoring of parameters such as **COD, BOD, TOC, TSS and SAC**.

Presentation:

The **UV Probe** is a multi-parameter online measurement probe for **continuous** and independent quality **control of water and effluent**. It measures the SAC (Spectrum Absorption Coefficient) directly.

It also provides by correlation the measurement of the TOC or COD or BOD and the Total Suspended Solids from the SAC measurements and laboratory measurement references.

Applications:

- Fresh water
- Treatment plant water
- Industrial effluent
- Process water

10 main Advantages:

- No re-agent or prior filtration (measurement principle)
- Self-cleaning measurement cell (compressed air)
- Ultra-low running cost (no conditional need)
- 100% autonomous & secured (analysis)
- UV led (ultra long life)
- No spare part (light maintenance)
- Stainless steel 316L (strong enclosure)
- Plug and measure fast (connection)
- Waterproof IP68 (probe and connector)

Probe Description:

The probe measures quality water parameters in different water types (used, effluent, process) immersed down to 10 meters depth.

The probe is directly connected to the transmitter within an IP68 connector and a submarine type cable.



	PROBE
Dimensions	Ø 55 mm and 250 mm length
Enclosure	Stainless steel 316 L
Protection	IP 68 1 bar 10 meters
Weight	5 kg
Ambient T°	0 - 40°C
Power Supply	90 - 250 V 50/60 HZ 15 W
Light source detector	LED

TOSHNIWAL INSTRUMENTS MANUFACTURING PVT. LTD.,

An ISO 9001:2015 Company

P.O.Gagwana - 305023, Distt: Ajmer (Raj.) INDIA

CIN: U65990MH1979PTC021556

Phone: +91-145-2971131/ 2/ 3 Mobile: 9829112345 E-mail: info@toshcon.com Website: www.toshcon.com

REGD OFFICE: 401, Manish Chamber, Sonawala Cross Lane, Goregaon (E), MUMBAI - 400 063

Transmitter Description:

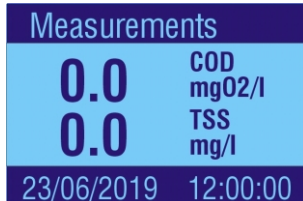
The transmitter collects the digital signals coming from the probe and processes them in order to determine the SAC and the concentrations in COD and Suspended Solids.

	TRANSMITTER
Dimensions	130 x 130 x 110 (mm)
Material Box	Polycarbonate
Protection	IP 65
Keyboard	Sensitive



Configuration System:

Parameter Choice



Maintenance Free

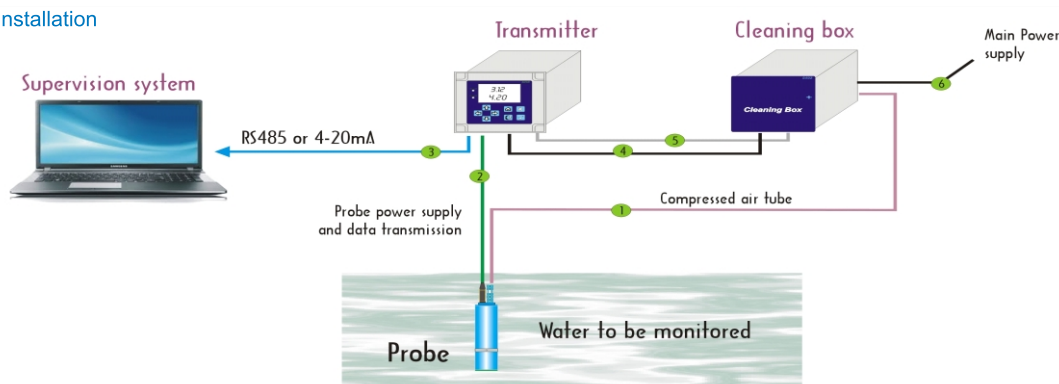


6 Analysed Parameters:

- COD (mgO₂/L)
- BOD (mgO₂/L)
- TOC (mgC/L)
- TSS (mg/L)
- SAC (UA/m)
- COLOR (mgPt/L)

	MEASUREMENT RANGE
COD	0 - 1000 mgO ₂ /L (1%)
BOD	0 - 500 mgO ₂ /L
TOC	0 - 400 mgC /L
TSS	0 - 1000 mg/L (1%)
SAC	0 - 600 UA/m
COLOUR	mgPt/L

Installation

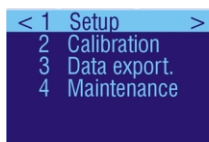


Integration

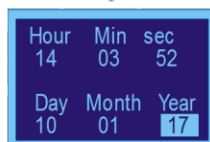


Process Features:

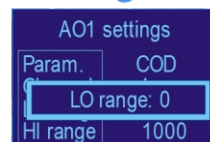
Setup



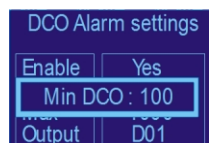
Date / time



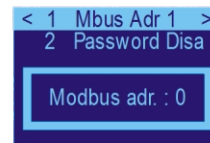
Analog out



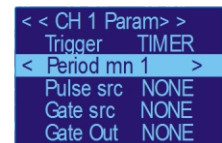
Alarms



Micellaneous

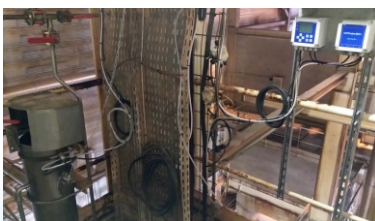


Analysis



Example of Type Installation:

- Food industrial site
- Main required analysed parameter COD
- Monitoring before water injection into main process
- Full system with probe, transmitter and air cleaner boxes



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