

## Online COD BOD TSS TOC Analyzer MS CB 3



### FEATURES

- Capable for Real-Time Adsorption Spectrum of Water pollutants using UV 254nm & IR 850nm wavelength
- Self-cleaning by Wiper Brush ☺ No Need of Air Supply For Cleaning
- No reagents à No pollution, More Economical, Environment and Eco Friendly
- Industrial Grade Rugged Construction
- Quick Response ☺ about 2 seconds
- Built-in Datalogging ☺ 10000 Records
- Maintenance Record ☺ 100 Records
- Easy Installation

### DESCRIPTION

MicroSet launched the new generation COD BOD TSS TOC Sensor which is used for environmental protection purpose. Sensor is reagent free, pollution-free, more economic & robust. Due to small size, it is easier for installation for online continuous water quality monitoring. Sensor comes with Automatic compensation for turbidity interference, with automatic cleaning facility. For long-term monitoring it has excellent stability. Thanks to our R&D team for developing robust, trouble-free controller for processing the signals coming from the sensor. The Controller gives output of RS 485 MODBUS for real time data monitoring demands of SPCB & CPCB.



## PRINCIPLE

MicroSet make COD BOD TSS TOC Analyser model MS CB 3 uses two light sources, one 254nm ultraviolet light and one 850nm infrared light which can automatically compensate the optical path attenuation and turbidity effects thus achieving more stable and reliable measurement values. Many organic substances dissolved in water absorb ultraviolet light. Therefore, the total amount of organic pollutants in water can be measured by measuring the absorption of these organic substances by ultraviolet light at a wavelength of 254nm.

## TECHNICAL SPECIFICATION

Principle	: UV IR Spectral Sensor (ISA) with complete Spectrum scanning
Light source	: UV & IR
Measuring Parameter	: COD, BOD, TSS, TOC
COD	: 1500 ppm (mg/L)
BOD	: 500 ppm (mg/L)
TSS	: 1000 ppm (mg/L)
TOC	: 600 ppm (mg/L)
Probe Head material	: POM + Stainless Steel
Probe Depth	: <5 m
Temperature	: 0 to 50°C
Sensor Protection	: IP 68
Temperature / Pressure	: Automatic Compensation
Accuracy	: ± 3%
Display	: 3.2 inch graphic LCD display
Resolution	: 0.01 ppm (mg/L)
Linearity	: 2% FS
Zero Drift	: < 1% FS
Retransmission Output	: Two settable 0/4~20mA current, Max. load 1000Ω can be assigned to COD BOD TSS & TOC parameter
Communication Output	: RS 485 Modbus
Built-in Datalogging	: 10000 Records
Maintenance Record	: 100 Records
Relay output	: 2 Nos Normally Open contact (3A/250VAC) can be assigned to COD BOD TSS & TOC parameter
Power Supply	: 100 ~ 240VAC, 50 Hz
Power Consumption	: 24W
Enclosure of Display Unit	: IP 66
Mounting of Display Unit	: Wall, Pipe & Panel Mounting
Overall dimensions of Display Unit	: 144 × 144 × 120 mm (H × W × D)
Interconnect Cable	: Standard 10 meters from Sensor to Display Unit (included)

## APPLICATION



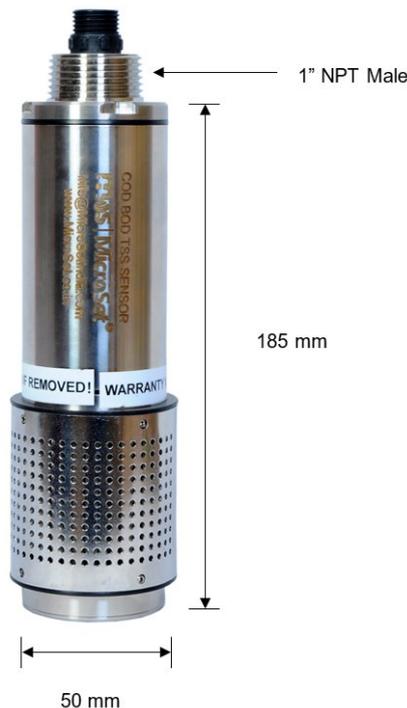
Water Treatment Plant (WTP)  
Effluent Treatment Plant (ETP)  
RO Water Plant  
Hydroponics  
Textile Industry  
Beverages / Food Industry

Wastewater Treatment Plant (WWTP)  
Sewage Treatment Plant (STP)  
Power Plant  
Chemical Industry  
Paper & Pulp  
Pharma Industry

## DIMENSIONS

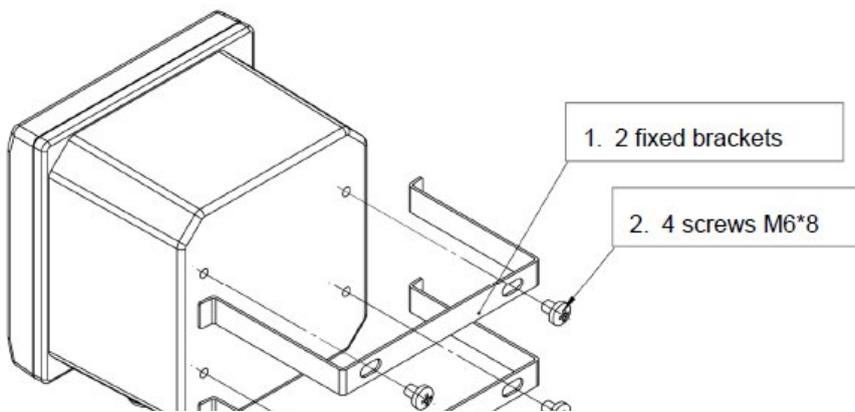


## SENSOR DIMENSIONS

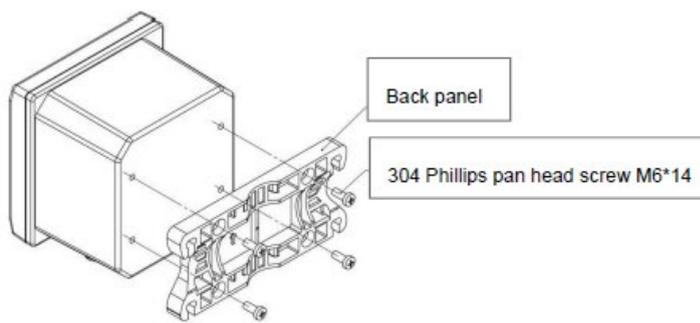


## INSTALLATION

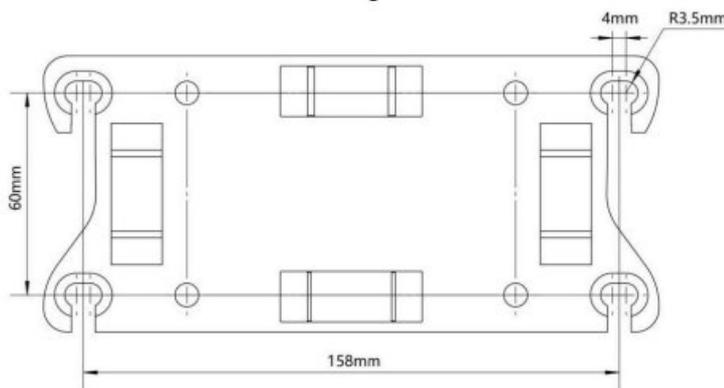
### 1. PANEL MOUNTING DETAILS :



### 2.

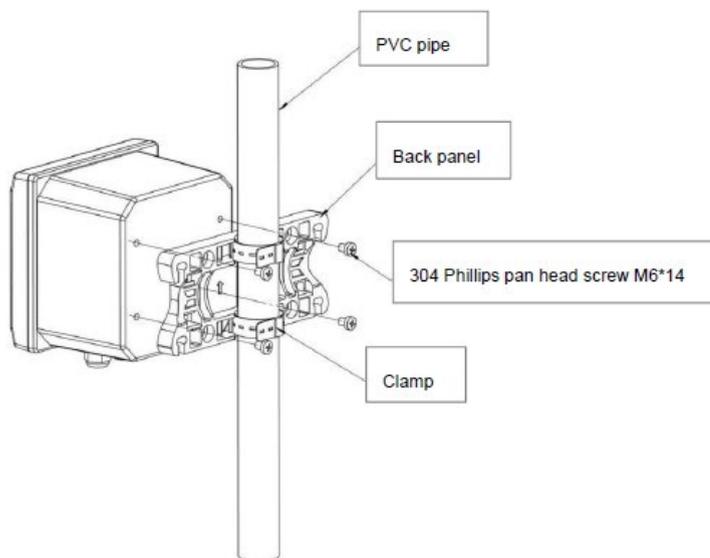


Wall mounting



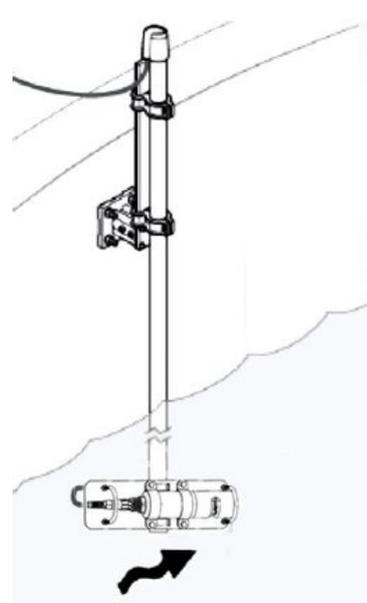
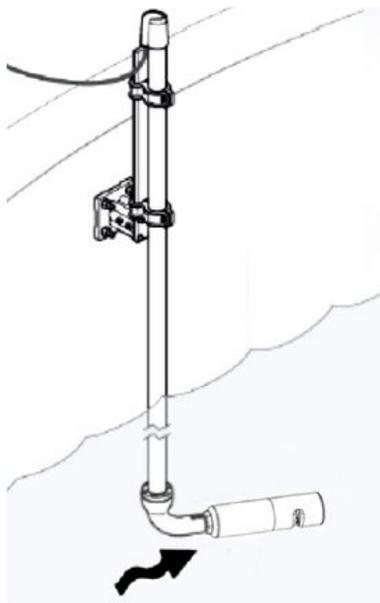
### WALL MOUNTING DETAILS :

### 3. PIPE MOUNTING DETAILS :



### SENSOR INSTALLATION DIAGRAM

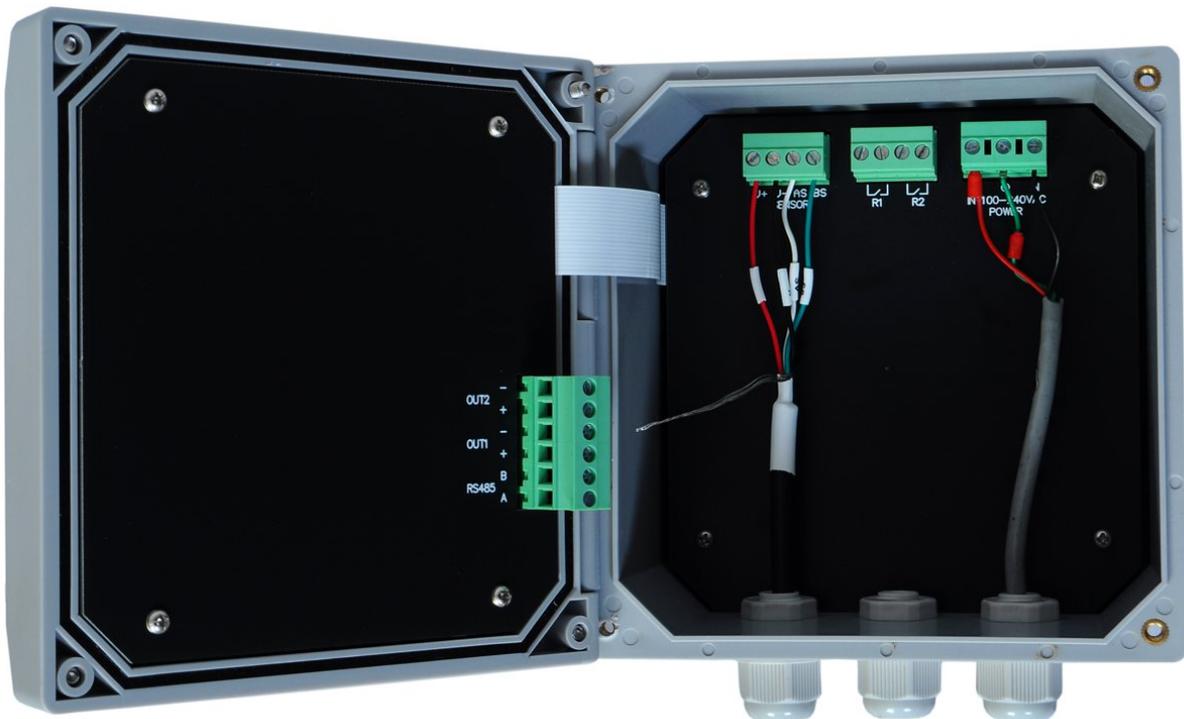
It perform and (2) them, is elbow for the rapid with less method type, rapid has high



is recommended to fixed installation in the following two ways (1) in the schematic diagrams; Among (1) the hoisting method type, which is suitable environment without flow and water body debris; (2) the hoisting is guard plate hoisting which is suitable for flow environment and installation stability.



## TERMINAL DETAILS





Note : Due to continuous improvement, product specifications & looks may vary