

BOD/COD-UV On-line Water Analyzer

...Higher precision in on-line water analysis...



- Low cost product
- Easy operation
- Accurate monitoring
- Low maintenance
- Display 7" Touch screen
- No sample preparation
- Simply Installation

Mode of Operation

The UV process has a flashlight photometer with cuvette formed by a gap in the analyzer case. The UV extinction of the immersion medium around the probe is measured across the width of this measuring aperture. The analyzer measurement with Spectral Absorption Coefficient at 254nm.(SAC254) for **higher** accurate of measuring from effect of turbidity on UV absorption is compensated by a reference measurement (Visible light source at 550 nm.) This method leaves no hazardous waste and is friendly with environmental.

Output and Communication

The BOD/COD-UV Analyzer has 4 channels for standard signal outputs (Analog 0-20 or 4-20mA.) and 4 channels for digital output (Relay 10A). There are many communications such as modbus protocol or RS485 or (WIFI) supports (option). The analyzer has built-in data logger by the expansion SD card upto2Gb for collecting measurement and alarm data.

Monitoring Application

The Analyzer was developed and produce in Thailand for monitoring the quality of water supply and waste water treatment process to higher precision in online water analysis. User can check the efficiency of each unit for the treatment on process. User can setup function control for automatic systems to run for making certain and easy operation. Typical applications are on industrial water, pulp and paper ,brewery treatment plant and drinking water.

Easy Maintenance

BOD/COD-UV Analyzer is easy to used and easy to maintenance because measurement is done in by-pass system. It also has hydraulic self-cleaning with design of sampling chamber and at the start cycle of measurement it has automatic flushing. the analyzer need calibration and service checking on yearly period.



Specification:

Measurement Method :

UV absorbance 254nm.
(Visible 550 nm. compensation)

Equipment Type:

Analyzer Box with chamber 30 mm.

Measurement Range:

BOD range 0-100 mg/L
COD range 0-1,000 mg/L

Accuracy:

±10 % of span measurement.

Analysis Time:

Max. 15 min / sample.

Calibration Range:

Linear

Sampling characteristics:

PH 4-10 pH
Temperature 0-60 C
Sampling Flow 0.1-5 L/min. (Maximum)
Pressure 0-0.5 Bar.

Display/ Processor:

7" Touch Screen , 800x480 Resolution /
ARM9 533 MHz.

Memory:

64 MB SD RAM, Expansion SD CARD
up-to 2GB.

Alarm mode:

Alarm level up to 4 level and have mode
alarm critical operation.

Analog Output:

4 Channels 0-20 or 4-20 mA, 16Bits
Resolution , Loop currents 2 Wire.

Digital Output:

4 Channels
10 A. Relay Output.
Opto isolation.

Data logger:

Data 15 min/Record, Max. 2 Years
Alarm 15 min/Record, Max. 2 Years

Communication:

1 Serials RS232 Modbus Protocol
1 Serials RS485 Modbus Protocol
Ethernet modbus over TCP/IP (Option)
Wireless (Option)

Power Supply:

115/230 VAC 50/60Hz. Max 3 A.

Analyzer Case:

Stainless Steel 304 , 600x1000x350 mm.

Pipe Size:

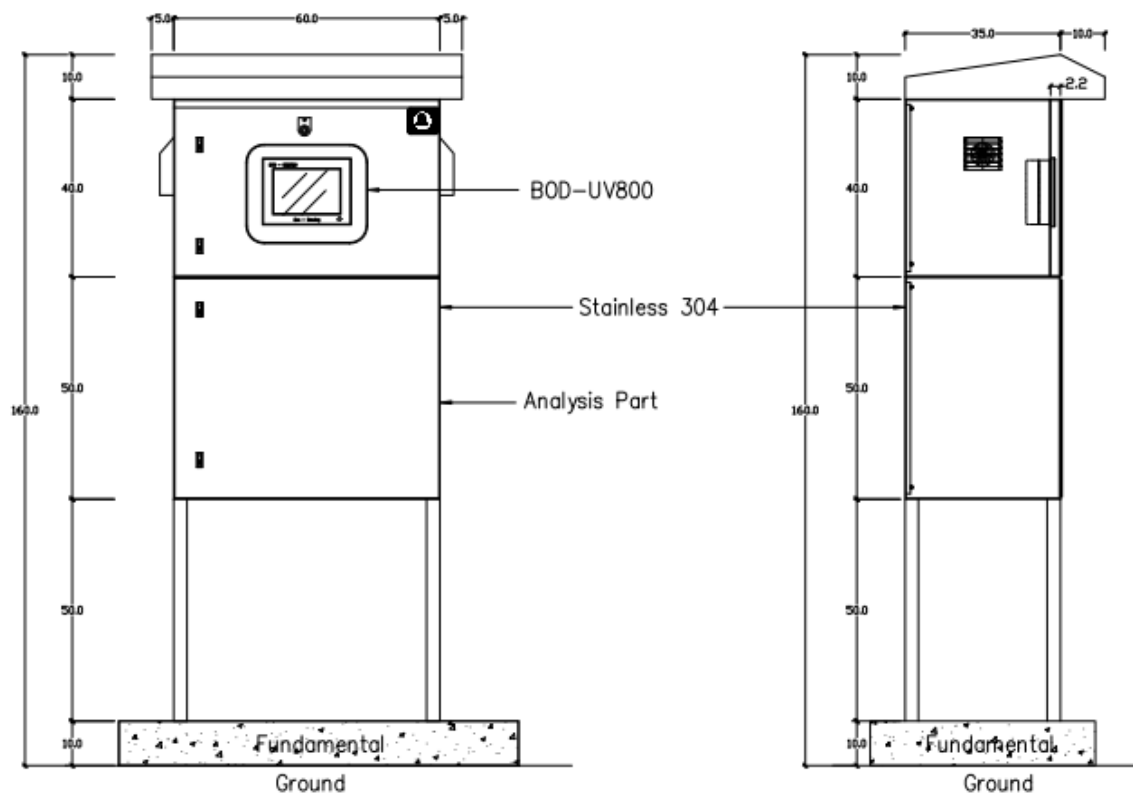
Input (sampling) : 1/2 " Stainless Steel
Output (Drain) : 1/2 " Stainless Steel

Produce city:

Analyzer : made in Thailand
Detector : made in Germany

Dimension Engineering:

BOD/COD-UV Analyzer is designed for easy Installation and flexible to use in-door or out-door. The design has support by-pass system and separation analysis part and water sampling flow. The analyzer case is stainless steel 304 for protection of corrosive environment and this installation type is more stable to use.



Remark : Size Unit is Centimeter



Mobilis Automata Co.,Ltd.

50/136 Moo 7, Klong 2 , KlongLuang Pathumthani 12120
Tel: 0-2153-4526 , Fax: 0-2153-4525, www.mobilis.co.th

Ordering Code:

- UVECO-001 BOD-UV800 for measurement BOD Only
- UVECO-002 COD-UV800 for measurement COD Only
- UVECO-003 Both-UV850 for measurement BOD and COD

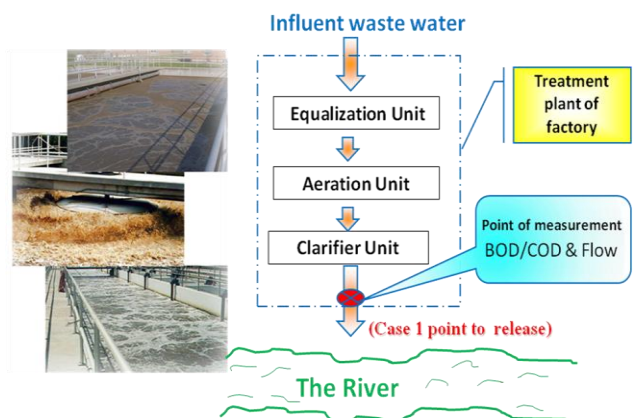
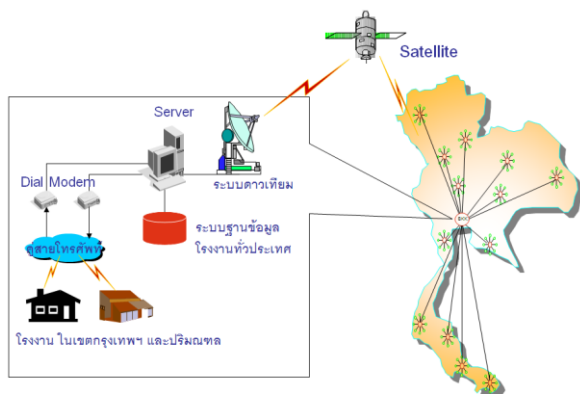
Accessory:

For support monitoring system and function control network.

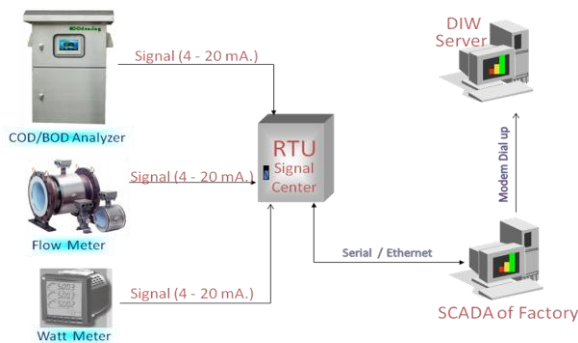
- MASN-001 DLU-120 signal converter
- MASN-002 RTU-010 Remote Terminal Unit
- MASN-003 ECO-MON Process control remote monitoring software

Hot Other Application:

BOD/COD-UV Analyzer is designed for increase option to use in water treatment operation system. Product highlight are that in can be correlated with industrial water flexible to use and low cost. Finally, this analyzer can support project of Ministry of Industry “Online Pollution Monitoring System, OPMS” for monitoring water quality of Factories in real time.



Point layout measurement of OPMS



Connect chart diagram of OPMS

