

Instrumentations in water and sewerage facilities

- Reliability and extensive experience in water and sewerage facilities

Features

- Our submerged level detectors measure water depth by detecting water pressure. These detectors can serve for monitoring water levels, and automatic control of pumps and gates.
- Our optical DO meters is used for measurements of the dissolved oxygen in the aeration tank such as sewage treatment plants and factory wastewater plants. Not the diaphragm type used so far but an optical sensor is used, and it is excellent in stability and the response.

Overview (Technical principles, actions, etc.)

- Submerged level detectors
This apparatus measure water depth by detecting water pressure.
 - Robust structure
The robust structure offers high shock resistance.
 - Excellent lightning and noise protection
Built-in lightning arresters. These features provide enhanced protection against lightning-induced voltage and noise.
 - Superior resistance to sludge and floating objects
Since the detector is installed underwater, it is not affected by surface water conditions such as floating objects, ice, and unsettled water surfaces caused by high winds.
 - Environmentally friendly
This apparatus is Rohs Directive compliant and can be used with eco cables.

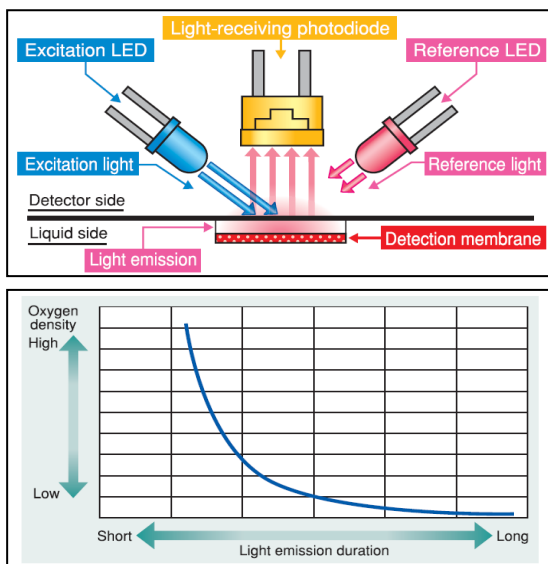
Our submerged level detectors support various fields and applications including clean water, sewage, rivers, seawater, and chemical solutions.



•Optical DO meters

The detection membrane is emit fluorescence by the excitation light. Fluorescence state is depending on concentration of oxygen around the sensing membrane. The lower the oxygen concentration, the longer the fluorescence time. In a contrasting situation fluorescence time is shorter. Thus the fluorescence time correlate to the oxygen concentration. Stable measurements can be done by use of the reference light which is a standard of fluorescence time

- Because it is a method to measure the optical longevity (time) not influenced easily by the light intensity, it is possible to measure it with stability for a long term.
- The Replacement part is only a detection membrane. Electrolyte solution is unnecessary. Maintenance is easy.
- Because oxygen is not consumed when measuring it, the liquid without flow velocity can be measured.
- It is an automatic setting as for the property data when the detection membrane are exchanged by having built memory IC into the detection membrane.



Introductory Track Record

Over50,000 sets (Japanese domestic)

Effects

- Appropriate water level control in water and sewerage facilities and factory wastewater plants can be
- Air volume control aeration appropriate sewage treatment plants and factory wastewater plants can be

JFE Advantech Co.,Ltd.
Water Environment Division

<http://www.jfe-advantech.co.jp/eng/>
E-mail teramae@jfe-advantech.co.jp
3-48, Takahata-cho, Nishinomiya, Hyogo, 663-8202, Japan
TEL +81-798-66-1502 FAX +81-798-65-7025