

# MLSS

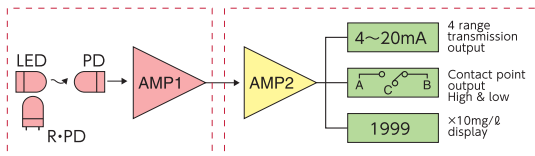
## 19 MC-502

## MLSS Monitor

Continuous Measurement of activated Sludge Density (MLSS) in an Aeration Tank



### Measuring theory



### Features

- As this detector is near-infrared ray transmission light type, it brings you stable and continuous measurement without influence by outer light or coloring.
- As this detector uses strong chemical proofed optical window against dirt, a cleaning unit is not necessary as its self cleaning system.
- As the calibration filter is attached as standard, span calibration is easy.
- 2~4 point zero and span calibration is possible.

### Usage

- Activated sludge density of sewage, human waste, combine septic tank, agriculture village, factory effluent, and measurement of returned sludge density
- Muddy sludge, turbidity and density of various process

### Meter

|                      |  |
|----------------------|--|
| Measuring system     | Near Infrared Transmission Light System  |
| Measuring object     | Activated sludge density, high density turbidity   |
| Display              | LED 3-1/2 digits   |
| Measuring range      | 0~19990 mg/l (0~1999×10mg/l)<br>*for convenience' sake, it may be indicated as 0~20000mg/l   |
| Minimum resolution   | 1×10mg/l   |
| Accuracy             | Within ±5% (FS) under certain conditions   |
| Transmission output  | DC 4~20mA (isolation type) 4 range switch<br>① 0~2500 mg/l (0~250×10mg/l)<br>② 0~5000 mg/l (0~500×10mg/l)<br>③ 0~10000 mg/l (0~1000×10mg/l)<br>④ 0~19990mg/l (0~1999×10mg/l)                         |
| Contact point output | High a, low b point, (non voltage)<br>Contact point capacity:AC 200V 1A(resistant load) or less  |
| Hold output          | Transmission output and contact point output is held by non voltage contact signal from outside.   |
| Calibration          | Zero:with distilled water or tap water<br>Span:① sludge with already known density by manual analysis (the first standard)<br>② simplified calibration with calibration filter (the second standard) |
| Power source         | AC 85~240V 50/60Hz   |
| Outer dimensions     | 96 (W)×96 (H)×163 (D)mm  |
| Standard components  | Converter, detector, panel fixing device, calibration filter, Handling Instruction   |

### Detector

|                        |  |
|------------------------|--|
| Product Name           | MLSS detector  |
| Model                  | ① standard type SSD-110N-6<br>② immersive type SSD-110HN-6   |
| Detector cable length  | 6m (standard)  |
| Sample water           | Temperature 0~40°C or less<br>No coexistence of solvent, hydrogen peroxide, strong oxide   |
| Liquid junction        | POM, SUS304, PVC<br>*If sample water is chemicals, possible to change to stainless steel junction treated with fluorine or resin. (optional) |
| Detector holder length | 1.5m (standard)  |