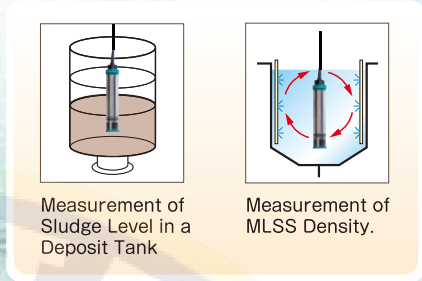


7 MLSS/SLUDGE LEVEL METER SS-10Z

For Industrial Waste Water, Human Waste Treatment Facilities.



Measuring Range

MLSS 0~20000mg/ℓ (max. 30000mg/ℓ)
Water Depth: 0~5m(max. 10m Measurement with extended Cable)

Optional Measuring Mode (common to SS-10Z and SS-10F)

6-Item working curve which has plenty of Evidence is built-in and gives measurement by selecting the Mode.



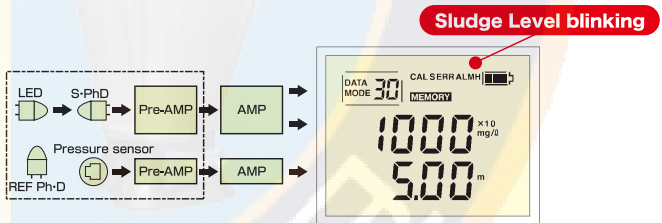
| Example) | |
|----------|-------------------------------------|
| Mode 1 | Food and dairy Sludge A |
| Mode 2 | Food and dairy Sludge B |
| Mode 3 | Sewage /combine Septic Tank A |
| Mode 4 | Sewage /combine Septic Tank B |
| Mode 5 | Human waste disposal/deposit Tank A |
| Mode 6 | Human waste disposal/deposit Tank B |

Measuring Outline

Signals from the MLSS Detector which is composed of reference Light receiving Element controlling Near-Infrared LED Light and LED luminance at the certain Level, transmitted Light receiving Element and Water Pressure Sensor can be calculated to be larger, indicate the Sludge Density and Water Depth of Sludge Level at the Same Time, make Alarm for Sludge Level, and obtain Sludge Zone Belt. Detector is Near Infrared Light System, Little influenced by the outer Light and Color. Therefore, it gives you highly sensitive MLSS Measurement.

Measurement of MLSS & Sludge interface

Simultaneous measurement of MLSS and Sludge Level (water depth) (SS-10Z)
Activated sludge density in the Air Chamber and sludge density or Sludge Level (water depth) in deposit tank can be measured at the same Time with a Single Meter. At the Sludge Level, "ALM", "mg/ℓ", "m" blinks and tell The Sludge Level.



*SS-10F without pressure sensor

Memory of Measured Value (common to SS-10Z and SS-10F)

Measured Value is memorized if you press MEMO key. Measured Value is called back by using ▲ or ▼ key. Max. 30 Data can be memorized and called back.



With Back Light (common to SS-10Z and SS-10F)

With Back Light, reading in the dark is OK.



Measurement of Water Depth (zone surface) with New Type Pressure Sensor (SS-10Z)

New type pressure sensor of the Detector is made of stainless Steel.
Trouble Free if you submerge it into water for a long time.

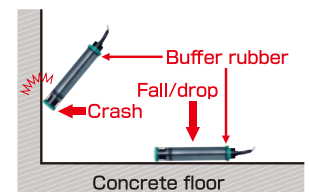
Use Applications

Sludge Density Measurement of Septic Tank, Sewage, Human Waste Disposal Plant, activated Sludge Disposal Plant.
Measurement of sludge zone surface/Water Depth of Deposit Tank. Construction Site. Sake Brewing Plant. Sludge Density measurement of food plant, etc.

With Shock Absorbing Rubber for Detector (common to SS-10Z and SS-10F)

In case of shock, it prevents the Breakage of Detector.

Caution: Selection of working curve (MODE) should be done after exact Measurement of Sample Density by Manual Analysis (weight method).

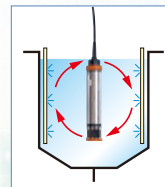


Continuous and stable Measurement of Water Depth (Zone Surface) and MLSS density for a long time is OK.

Measurement of Activated Sludge Density/Sludge Level in a Deposit Tank

Economy type, popular type, highly sensitive MLSS meter

※Exclusive for MLSS Measurement, not for Water Depth Measurement.
Economy Price with the Same Quality as SS-10Z.



Measurement of MLSS Density



- Measurement of 0~20000 mg/ℓ (max.30000mg/ℓ)
- Alarm function at Sludge Level
- Automatic LED Light correction with reference Light
- Measurement with Mode Selection by usage
- Stainless Steel Detector with Shock absorbing Rubber

Specifications

Meter

| Name/Model | MLSS/Sludge Level Meter : SS-10Z (with Water Depth Measuring Function) | MLSS Meter : SS-10F (without Water Depth Measuring Function) |
|--------------------------|--|--|
| Measurement | Activated Sludge Density, Zone Surface (Water Depth) of Sediment Tank and Sludge Density | Activated Sludge Density |
| Measuring Method | MLSS : Near-Infrared Pulse Transmission light System Sludge Level (Water Depth) : Semiconductor Temperature Sensor System | MLSS : Near-Infrared Pulse Transmission Light System |
| Measuring Range | MLSS : 0~20000mg/ℓ (max.30000mg/ℓ display) Sludge Level : 0~5m (max. 10m display with prolonged cable) | MLSS : 0~20000mg/ℓ (max.30000mg/ℓ display) |
| Resolution | MLSS : 10mg/ℓ (within 0~10000mg/ℓ) 100mg/ℓ (within 10000~30000mg/ℓ) Sludge Level : 0.01m | MLSS : 10mg/ℓ (within 0~10000mg/ℓ) 100mg/ℓ (within 10000~30000mg/ℓ) |
| Accuracy | MLSS : within ±3%(FS) under certain conditions Sludge Level : within ±3%(FS) under certain conditions | MLSS : within ±3%(FS) under certain Conditions |
| Display | Liquid Crystal Display MLSS : LCD 4 digits (upper) Memory : LCD 2 digits Sludge Level : LCD 4 digits (lower) | Liquid Crystal Display MLSS : LCD 4 digits Memory : LCD 2 digits |
| Mode | Select one of 6 Modes. Example ① Food and dairy Sludge Mode A. ② Food and dairy Sludge Mode B. ③ Sewage disposal/combine Septic Tank Sludge Mode. ④ Human Waste Disposal Sludge Mode. ⑤ Deposit Tank concentrated Sludge Mode A. ⑥ Deposit Tank concentrated Sludge Mode B. | <div style="border: 1px solid black; padding: 5px;"> ※By the Feature of Sludge, these Modes may not be within ±10% compared with manual analyzed Value, therefore, please analyze manually and have span and middle Point Calibration when it is necessary. </div> |
| Zone Surface Measurement | "ALM", "mg/ℓ" blinks over 15000 mg/ℓ. Water depth display at "ALM", "mg/ℓ" blinking shows sludge zone surface. | |
| Calibration Method | MLSS : ① One-point Calibration (zero calibration only) ② Two-point Calibration (Zero and Span Calibration) ※Span Calibration should be done by Sludge of known Density. ③ 3~4 point Calibration (Zero, Span and Middle-Point Calibration) ※Span calibration should be done by Sludge of known Density, and Middle-Point Calibration by diluted Sludge. Water Depth : Auto Zero Calibration at the time of throwing Power Source. | |
| Self diagnosis | Battery Voltage, Detector, Disorder Calibration Disorder, Scale Over | |
| Memory | Max. 30 data | |
| Structure | Dust-Proofed, Water-Proofed, corresponding to IP67 (under the condition of Connector Plug and the Meter correctly connected) | |
| Power Source | DC4.5V(LR03×3) Auto power off after 30 Minutes. | |
| Dimensions | 70(W)×170(D)×36(H)mm | |
| Weight | Approx. 290g | |

※Because of product improvement, these specifications may be changed without notice.

Detector

| Name/Model | MLSS/Sludge Level Detector : SSD-10Z (with Pressure Sensor) | MLSS Detector : SSD-10F (without pressure Sensor) |
|----------------|--|---|
| Cable length | 6m Standard (possible max. 11m) | 6m standard (possible max. 11m) |
| Dimensions | φ40×214 | |
| Weight | Approx. 800g | |
| Materials | ABS, SUS304 | |
| Unable to test | Sample with organic Solvent, strong Acid Sample, Sample with strong Oxidizer | |

Standard Components

Meter (Detector), Alkaline battery : LR03 ※already set in the meter.
Plastic cover, Carrying case, Neck strap, washing brush
▲Shock absorbing rubber for Detector,

Optional Accessory

Simple Standard Filter

※By using this Filter, we can easily check if Detector is normal or not.