13 MLSS SENSOR

ML-30

Cableless Type : 0~19900mg/ℓ Measurement

Outline

This MLSS Sensor, ML-30 unifies Sensor with Cableless Meter. No trouble of cable disconnection, and also easy and Simple to clean the Sensor.
Collect Sample water and put the Sensor into it, which leads to speedy Measurement of MLSS. Then move to the next step of Water Quality Test of SV, etc.
This Sensor has many Features such as use of Teflon to optical Window which is strong against Dirt.

Lineality after Zero Calibration

1. Cableless type (about 100mℓ sample water)

Submerge the sensor up to about 5cm into Sample Water, stir lightly and measure.

2. Detector/meter unified type MLSS sensor

3. Near-infrared pulse transmission light system
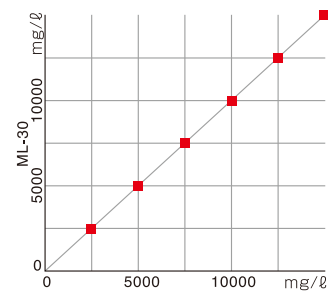
Less influenced by outer Light.

4. Optical window is made of FEP

Strong against Dirt, Good Absorbance of Light, good Lineality

5. Operatable as turbidity meter

Possible to measure high Density Turbidity by calibrating with Turbidity Standard Solution.

Span Calibration

If you calibrate to manually analyzed Value, operate by using ▲ and ▼ switch. (span is one-point calibration only)

※Manually analyzed Value =

$$\text{Weight(b-a)} \times \frac{1000}{X} = \text{MLSS mg/ℓ}$$

a = Weight (mg) of evaporation plate before analysis
b = Weight (mg) of evaporation plate after analysis
X = sample water (mℓ)

Specifications

Product Name/Model	MLSS sensor/ML-30
Measuring Range	MLSS : 0~19900mg/ℓ
Measuring Method	Near-infrared Light System
Resolution	10mg/ℓ (within 0~10000mg/ℓ)
	100mg/ℓ (within 10000~19900mg/ℓ)
Calibration	1 Point : Zero Calibration
	2 Point : Zero & Span Calibration
Self diagnosis	Battery Check, S ERR, CAL ERR,
	Scale over, ETC.
Power supply	Alkaline Battery LR1×4(DC6V)
Dimensions	48(W)×32(D)×301(H)mm
Weight	Approx : 300g
Detector Condition	Temp. : 0~40℃
	Flow speed : Need
Standard Components	Instrument, Carrying Case
Optional Accessories	Measuring Container

Caution: Working curve included in this MLSS Sensor is the typical absorbance Light Feature of Sludge. In case of some kind of sludge, values by manual analysis and by ML-30 may differ, which needs Span Calibration. In case of calibrating actual sludge density of this MLSS Sensor, make Span Calibration after finding Sludge Density by weight Method