

# TSS/Turbidity

## 21 TSS-502

## TSS & Turbidity Monitor

Near-infrared 90° scattered Light measuring System



Flow type detector  
TRD-120FN+TRD-FH



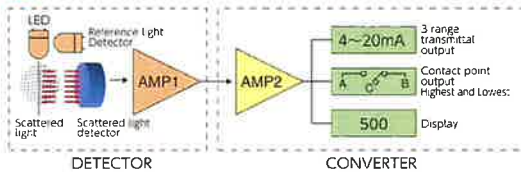
Detector with  
jet air  
washing unit



Immersion type  
detector  
TRD-120HN



### Measuring Diagram



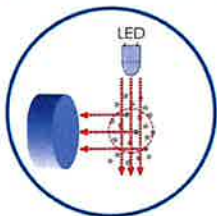
### Outline

There is a constant correlation between SS in the waste water and scattered light turbidity. By obtaining the correlation factor  $y=a+bx$  and inputting this factor, turbidity is converted to SS density. SS or turbidity is sensitively measured at SS mode or at turbidity mode individually.

Span calibration and switching is done by simple operation of 4 keys.

### Features

- Measurement of SS density and turbidity by switching  
Selective measurement of pollution of the waste water as SS density or turbidity
- Correlation between SS and turbidity, with calculation system of  $y=a+bx$   
Possible to set correlation factor between manually obtained SS and turbidity of sample water by operating  $\blacktriangle$   $\blacktriangledown$  keys.
- 90° Scattered light measuring system



### Meter

Product name	TSS/Turbidity Monitor
Model	TSS-502
Display	LED 3-1/2 digits
Measuring range	Standard: Turbidity: 0~500 NTU (Standard) TSS: 0~500mg/ℓ (Converted Value) ※ If TSS & turbidity relation is not 1:1, TSS measuring range differs.
Resolution	0.1 (NTU or TSSmg/ℓ) (in case measuring range is 100) 1 (NTU or TSS mg/ℓ) (in case range is 200~500)
Transmittal Output	DC 4~20mA (isolated type) 3 range system ① 0.0~100.0 (NTU or TSS mg/ℓ) ② 0~200 (NTU or TSS mg/ℓ) ③ 0~500 (NTU or TSS mg/ℓ)
SS conversion	Conversion coefficient $y=a+bx$ ( $x$ =turbidity, $y$ =TSS) is possible to set
Span Calibration	① After span calibration with formazine turbidity standard solution, set conversion coefficient. ② 1 point or 2 point calibration of TSS value of sample water after manual analysis
Contact point output	a (high), b (low) (non voltage) contact capacity: within AC 200V 1A
Repeatability	Within $\pm 5\%$ (Full Scale)
Power Supply	AC 85~240V, 50/60Hz
Outer dimension	96 (H) $\times$ 96 (W) $\times$ 163 (D) mm

### Detector

Product name	90° Scattered Light SS/Turbidity Detector
Model	① Standard type :TRD-120N ② Immersion type :TRD-120HN (standard) ③ Flange type :TRD-120HFN ④ Flow type :TRD-120FN+TRD-FH
Measuring theory	90° scattered Light Measuring System
Liquid Junction	PVC, hard glass, SUS-304
Cable length	6 m (standard)
Holder length	1.5m (standard)
Detector fixing	Arm type support or exclusive flange support
Cleaning device	① Wiper cleaner (option) ② Jet air cleaner (option)