

TSS/Turbidity

21 TSS-502N

TSS & Turbidity Monitor

Near-infrared 90°scattered Light measuring System



Flow type detector
TRD-120FN+ TRD-FH



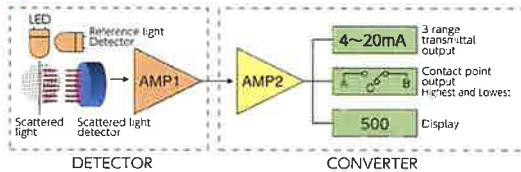
Detector with
jet air
washing unit



Immersion type
detector
TRD-120HN



Measuring Diagram



Meter

Product name	TSS/Turbidity Monitor
Model	TSS-502N
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)
Transmittal Output	DC 4~20mA (isolated type) 3 range system ① 0.0~100.0 (NTU or TSS mg/ℓ) ② 0.0~200.0 (NTU or TSS mg/ℓ) ③ 0.0~500.0 (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)×96(W)×163(D)mm

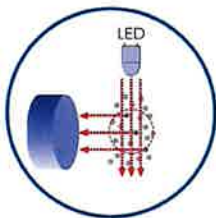
Outline

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



Detector

Product name	90° Scatter 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)