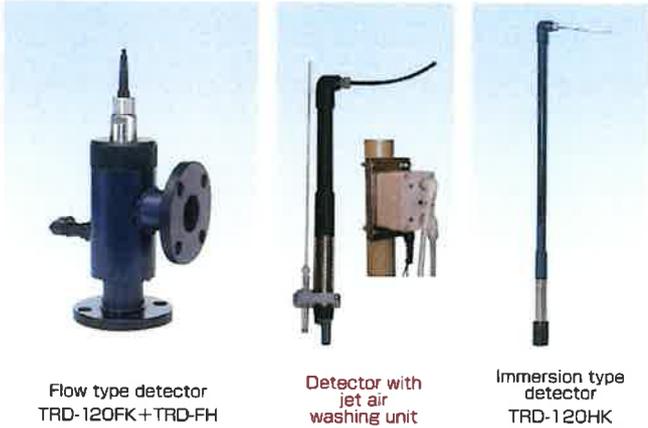


08 TSS&Turbidity Monitor of 90° scattered Light

TSS-502N

Sensitive measurement of TSS Density
Near-infrared 90°scattered Light measuring System



Flow type detector
TRD-120FK+TRD-FH

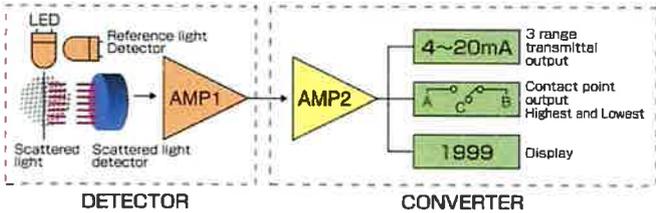
Detector with
jet air
washing unit

Immersion type
detector
TRD-120HK

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.

Measuring Diagram



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 ▲ ▼ keys.
- **Sensitive measurement of 90° scattered light, SS/turbidity sensor**
Excellent resolution of SS density detection, as the light receiving element sensitively detect SS/turbidity at the max. area of 200mm²



Specifications

Meter

Product name	TSS/ Turbidity Monitor
Model	TSS-502N
Display	LED 3 · 1/2 digits
Measuring range	Standard : Turbidity : 0 ~ 500 NTU (Standard) SS : 0 ~ 500mg/ ℓ (Converted Value) * If SS & turbidity relation is not 1 : 1, SS measuring range differs.
Resolution	0.1 (NTU or SS mg/ ℓ)
Transmittal Output	DC 4~20mA (isolated type) 3 range system ①: 0.0~100.0 (NTU or SS mg/ ℓ) ②: 0.0~200.0 (NTU or SS mg/ ℓ) ③: 0.0~500.0 (NTU or SS mg/ ℓ)
SS conversion	Conversion coefficient $y = a + bx$ ($x = \text{turbidity}$, $y = \text{SS}$) 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 SS value of sample water after manual analysis.
Contact point output	a (high), b (low) (non voltage) contact capacity : within AC 200V 1A
Hold output	Transmittal output and contact output are held by inputting non voltage contact signal from outside.
Power Supply	AC 85~240V, 50/60Hz
Outer dimension	96(H) × 96(W) × 163(D) mm

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-120FHN ④: Flow type : TRD-120FHN+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)