08 TSS & Turbidity Monitor of 90° scattered Light TSS-502

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

Flow type detector
TRD-120FK+TRD-FH

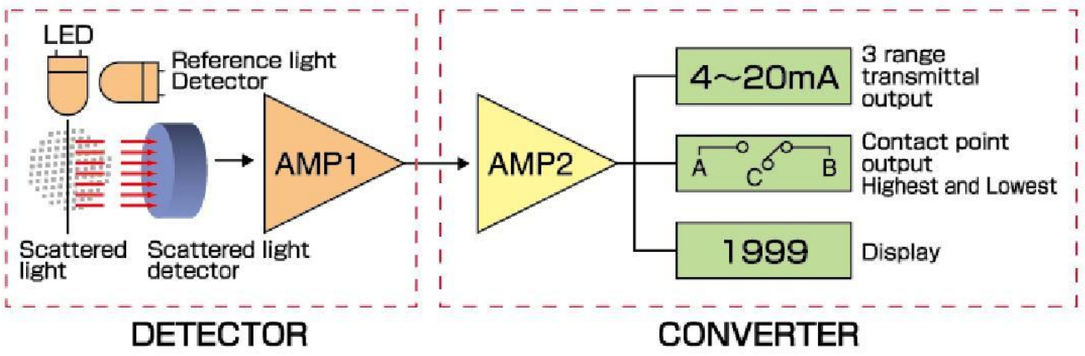
Detector with jet air washing unit

Immersion type detector
TRD-120HK

Outline

There is a constant correlation between TSS in the waste water and scattered light turbidity. By obtaining the correlation factor y=a+bx and inputting this factor, turbidity is converted to TSS density. TSS or turbidity is sensitively measured at TSS mode or at turbidity mode individually.
Span calibration and switching is done by simple operation of 4 keys.

Measuring Diagram



Features

- **Measurement of TSS density and turbidity by switching**
  Selective measurement of pollution of the waste water as TSS density or turbidity
- Correlation between TSS and turbidity, with calculation system of y=a+bx
  Possible to set correlation factor between manually obtained TSS and turbidity of sample water by operating ▲ ▼ keys.
- Sensitive measurement of 90° scattered light, TSS/turbidity sensor
  Excellent resolution of TSS density detection, as the light receiving element sensitively detect TSS/turbidity at the max. area of 200㎟

Specifications

Meter

Product name	TSS/Turbidity Monitor
Model	TSS-502
Display	LED 3・1/2 digits
Measureing 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 TSS mg/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) TSS
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
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 TSS/Turbidity Detector
Model	① Standard type : TRD-120K ② Immersion type : TRD-120HK(standard) ③ Flange type : TRD-120HFK ④ Flow type : TRD-120FK+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)