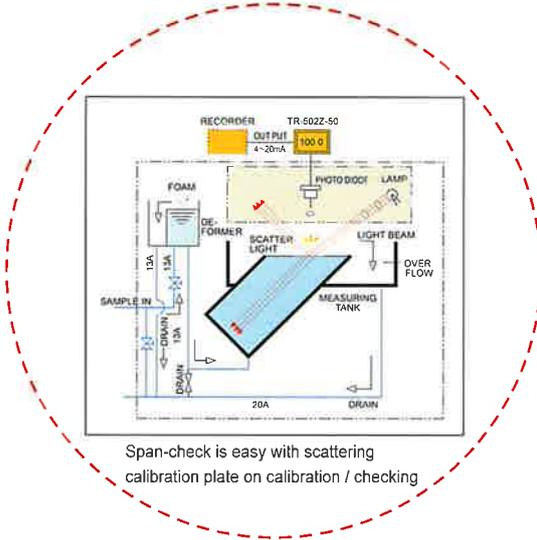


# Turbidity

## 13 TRD-51U SYSTEM

## Surface Scattered Light, Turbidity Monitor

### Measuring system (inside the detector unit)



### Out Line

This turbidity meter uses **surface scattering light measuring system**, and is composed of detector unit and indication converter, test sample water that is brought into turbidity detecting section through deforming tank is discharged on drain side, while rippling waves so designed as hardly happening on the surface of the water. On the hand, the light beam from the floodlight section that is placed slantly on the upper part of measuring tank is illuminated on the water surface of measuring tank, and generates scattering light in proportion to turbidity density. **This scattering light** is introduced to the upper detector and the light volume is detected, and through the converter the density indication is made, **The light beam** that is transmitted without being scattered on the surface of measuring tank advances to the angle direction of the measuring tank so that it can not become disturbing light on the side of the measuring tank.

### Features

- Excellent surface scattering light measuring system.
- Optical system dew-condensation prevention performance.
- Span-check is easy with scattering calibration plate on calibration / checking.

### Component

Converter	TR-5022-50
Detector	TRD-51U

### Meter

Product Name	Surface Scattered Light, Turbidity Monitor
Model	TR-5022-50
Display	LED Red 4 figures digital display
Measuring Range	Kaoline turbidity or Formazine Turbidity 0~200 (mg/ℓ or FTU):Standard 0~1000 (mg/ℓ or FTU):Option
Transmittal Output	DC 4 ~ 20mA (isolated type) 4 range (Manual change) A:0~20 / 0~50 / 0~100 / 0~200 (mg/ℓ or FTU) (Standard) B:0~100 / 0~200 / 0~500 / 0~1000 (mg/ℓ or FTU) (Optional)
Resolution	0.1 (In the case of a F.S. 0~200) 1 (In the case of a F.S. 0~1000)
Accuracy	Within ±2 % (Full Scale)
Power Supply	AC 100V 50 /60 Hz (AC 220V:optional)

### Detector

Product Name	Surface Scattered System Turbidity Detector
Model	TRD-51U
Measurement condition	Temperature : Within 0~40℃ Pressure : Less than 0.1MPa Discharge flow: 0.5~5ℓ
Power Supply	AC 100V 50 /60 Hz (AC 220V:optional)
Material	PVC, Brass, SPCC, Rubber
Connection attachment	Sample entrance : 13A PVC socket or φ18 tube Sample exit : 20A PVC socket or φ38 tube
Std. component	Detector unit : TRD-51U, Deforming tank, Connection attachment unit Span calibration board, Zero calibration cap, Meter