

Turbidity

24 TR-502Z 90°scattered Light Turbidity Monitor



Flow type Detector
TRD-120FN+TRD-FH



Standard type Detector
TRD-120N



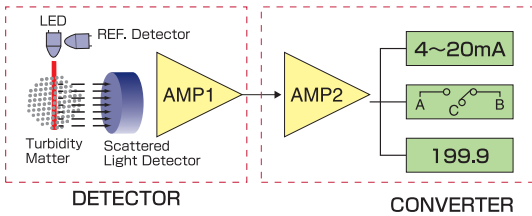
Immersion type Detector
TRD-120HN



Detector with jet-air washing unit



Measuring Diagram



Outline

This 90°near infrared scattered light method, sensitive turbidity monitor can give you continuous measurement of turbidity of especially low density, such as drinking water, swimming pool, river, waste water from the plants, septic tank discharging water, etc. and can record by output signal and control by alarm.

Measuring theory

Light bundle from LED light source is projected into sample water, and scattered light is produced in proportion to density of turbidity substance. On the other hand, current signal in proportion to scattered light is produced from the light receiving part which is located at 90°direction from the projector, and can be measured through the converter at display as turbidity.

Features

With simplified zero calibration unit, ultra pure water is not necessary for zero calibration
The second standard simplified zero calibration unit increased reliability of zero calibration.

Meter

Product Name	90°scatter Light System Turbidity Monitor
Model	TR-502Z
Measuring Method	Near-infrared 90°Scatter Light System
Measuring Range	0.0~500.0 (Degree or NTU)
Measuring Unit	Kaoline (degree = mg/l) Std., Formazine (NTU) optional
Resolution	0.1 / Less than 200 degree (or NTU) 0.01 / 200~500 degree (or NTU)
Accuracy	Within ± 2% (Full Scale)
Surrounding conditions	Temperature: 0~40°C
Transmittal Output	DC 4 ~ 20mA (isolated type)
Alarm Point	Low and High, each a, b point of contact
Hold output	Transmission output and point output by input of no voltage point signal from outside at maintenance time
Calibration	Zero: pure water (First Std.) Zero calibration filter (Second Std.) Span: Turbidity Std. matter. (Kaoline, Formazine, Polystyrene)
Power Supply	AC 85 ~ 240V free input 50 / 60 Hz
Std. component	Meter, Detector, panel fixer, Zero Calibration filter

Detector

Measuring Method	90°Scatter light System
Model	1. Standard type: TRD-120N 2. Immersion type: TRD-120HN 3. Frange type: TRD-120HFN 4. In-line type: TRD-FH + TRD-120FN
Measurement condition	Temperature: Within 0~40°C ※No Coexistence (Bubble, Fluoride, Organic solvent)
Holder length	1.5m Std.
Cable length	6m Std.
Material	PVC, SUS-304, Glass

Usage

Water purification plant, simplified drinking water system, water tank, industrial water, waste water from the plants, water for food industry.