

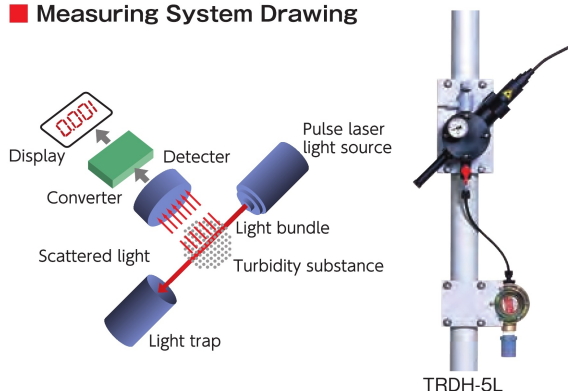
# Turbidity

25

TR-502L NEPHELOC<sub>®</sub>

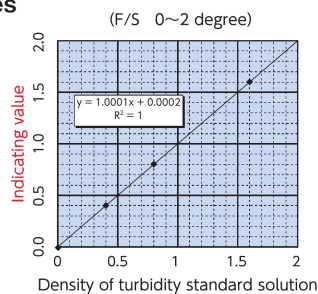
Laser scattered Light Method  
Turbidity Monitor

## Measuring System Drawing



## Linearity features

Turbidity	Display
0	0.0
0.4	0.402
0.8	0.798
1.6	1.601



## Outline

If 660nm red pulse laser bundle is projected into the sample water, strong scattered light occurs. This scattered light is detected by the light receiving element angled at 90°, transferred to the converter as density signal, calculated, amplified and digitally displayed. Laser turbidity monitor sensitively measures molecule turbidity little influenced by colority.

## Features

- Laser scattered light method, sensitive turbidity detector  
Sensitive of 0.001 measurement of 0.000~2.000
- 3-range manual selection of transmission output 0~0.5/0~1.0/0~2.0
- Either PSL or formazine turbidity is possible to measure  
Span calibration is possible either with polystyrene standard solution or formazine standard solution.
- Simple and reliable zero calibration  
Reliable zero-calibration system with light source cutout (the first standard)
- Simple and reliable span calibration  
Simple span calibration by simple span calibration board (the second standard)  
Standard span calibration is also possible by standard turbidity solution (the first standard)

## Meter

Product Name	Laser scatter light type Turbidity Meter
Model	TR-502L
Measuring Method	Laser scatter light System (nephelometry method)
Display	LED 4 figures digital display
Measuring Range	0.000~2.000 (mg/l or NTU)
Resolution	0.001 (mg/l or NTU)
Transmittal Output	DC 4 ~ 20mA (isolated type) 3 range (Manual change) 1) 0.000~0.500 (mg/l or NTU) 2) 0.000~1.000 (mg/l or NTU) (Initial setting) 3) 0.000~2.000 (mg/l or NTU)
Accuracy	Within ±2% (Full Scale)
Alarm Point	Low and High, each a, b point of contact (no voltage)
Power Supply	AC 85~240V 50 / 60 Hz
Measurement condition	Temperature: Within 0~40°C Pressure : About 0.1~0.5MPa (at the pressure control valve entrance) Discharge flow: About than 0.05l/min ※No Coexistence (Bubble, Fluoride, Organic solvent)
Connection attachment	Sample entrance: 20A socket Sample exit : φ4×φ6 PP Tube
Std. component	Meter, Detector, panel fixer, Calibration containers, Flow Type holder, pressure reducing valve, Calibration filter, PP tube
Optional	Pole stand, Turbidity Std Solution.

## Usage

Turbidity measurement of water purification plants, simplified drinking water facilities, swimming pools, discharging water from the filtration facilities, industrial water, recycled waste water supply, etc.