


## Overview

The principle of the turbidity sensor is based on the combined infrared absorption and scattered light method. The ISO7027 method can be used to continuously and accurately determine the turbidity value. According to ISO7027 infrared double-scattering light technology is not affected by chromaticity to determine the sludge concentration value. The self-cleaning function can be selected according to the use environment. Stable data, reliable performance; built-in self-diagnosis function to ensure accurate data; simple installation and calibration.

The electrode body is made of 316L stainless steel, which is corrosion-resistant and more durable. The seawater version can be plated with titanium, which also performs well under strong corrosion. Fully automatic electrode scraper, self-cleaning function, effectively prevent solid particles from covering the lens, improve measurement accuracy, and prolong use accuracy.
IP68 waterproof design, can be used for input measurement. Real-time online recording of Turbidity/MLSS/SS, temperature data and curves, compatible with all water quality meters of our company.

## Features

1- The internal upgrade of the sensor can effectively prevent the internal circuit from dampness and dust accumulation, and avoid damage to the internal circuit.

2-The transmitted light adopts stable invisible near-monochromatic infrared light source, which avoids the interference of chroma in liquid and external visible light to sensor measurement.And built-in luminosity compensation, improve the measurement accuracy.

3-The use of quartz glass lens with high light transmittance in the optical path makes the transmission and reception of infrared light waves more stable.

4- Wide range, stable measurement, high precision, good reproducibility.

KANAGAWA INSTRUMENTS

## Technical Specification

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| Model No. | KTP Series |
| Power/Outlet | 9~36VDC/RS485 MODBUS RTU |
| Measurement mode | 135°IR scattered light method |
| Dimensions | Diameter 50mm*Length 210mm |
| Housing material | PVC+316 Stainless steel |
| Waterproof rating | IP68 |
| Measurement range | 0.01-4000 NTU |
| Measurement accuracy | ±01% or 0.5NTU,whichever is grater |
| Pressure resistance | ≤0.3Mpa |
| Measuring temperature | 0-45°C |
| Calibration | Standard liquid calibration, water sample calibration |
| Cable length | Default 10m,can be extended to 100m |
| Thread | G3/4 |
| **Weight** | 2.0kg |
| Application | General applications, rivers, lakes, environmental protection, etc. |

## Technical Drawing

