

Digital Suspended Solids (Sludge concentration) Sensor



Introduction:

The principle of the sludge concentration sensor is based on the combined infrared absorption and scattered light method. The ISO7027 method can be used to continuously and accurately determine the sludge concentration. 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. IP68 waterproof design, can be used for input measurement.

0-200mg/L, 0-5000mg/L, 0-50000mg/L, a variety of measuring ranges are available, suitable for different working conditions, the measurement accuracy is less than $\pm 5\%$ of the measured value.

The sludge concentration meter is an online analytical instrument designed to measure the concentration of suspended solids in the treatment of municipal sewage or industrial wastewater. Whether evaluating activated sludge and the entire biological treatment process, analyzing wastewater discharged after purification treatment, or detecting sludge concentration at different stages, the sludge concentration meter can give continuous and accurate measurement results.

Typical application:

Suspended Solids (Sludge concentration) monitoring of water from waterworks, water quality monitoring of municipal pipeline network; industrial process water quality monitoring, circulating cooling water, activated carbon filter effluent, membrane filtration effluent, etc.

Technical parameters:

Model No.	CS7850D/CS7851D/CS7860D
Power/Outlet	9~36VDC/RS485 MODBUS RTU or 4-20mA
Measurement mode	90° IR scattered light method
Dimensions	Diameter 50mm*Length 223mm
Housing material	POM+316 Stainless steel
Waterproof rating	IP68
Measurement range	0-200 mg/L/5000mg/L/50000mg/L
Measurement accuracy	±5% or 0.5mg/L, whichever is greater
Pressure resistance	≤0.3Mpa
Measuring temperature	0-60℃
Calibration	Standard liquid calibration, water sample calibration
Cable length	10m or customize
Thread	G3/4
Weight	1.5kg
Application	General applications, rivers, lakes, environmental protection, etc.