

## CS3501 Conductivity Sensor



Conductivity sensor technology is an important field of engineering and technology research, used for the liquid conductivity measurement, is widely used in human production and life, as electric power, chemical industry, environmental protection, food, the semiconductor industry research and development, Marine industrial production and essential in the development of technology, a kind of testing and monitoring devices. The conductivity sensor is mainly used to measure and detect industrial production water, human living water, seawater characteristics and battery electrolyte properties.

Measuring specific conductivity of aqueous solutions is becoming increasingly important for determining impurities in water. The measurement accuracy is greatly affected by temperature variation, polarization of the contact electrode surface, cable capacitance, etc. Twinno has designed a variety of sophisticated sensors and meters that can handle these measurements even in extreme conditions.

Suitable for low conductivity applications in the semiconductor, power, water and pharmaceutical industries, these sensors are compact and easy to use. The meter can be installed in several ways, one of which is through the compression gland, which is a simple and effective method of direct insertion into the process pipeline.

The sensor is made from a combination of FDA-approved fluid receiving materials. This makes them ideal for monitoring pure water systems for the preparation of injectable solutions and similar applications. In this application, the sanitary crimping method is used for installation.

<b>Model No.</b>	<b>CS3501</b>
<b>Cell constant</b>	K=1.0
<b>Electrode type</b>	2-electrode Conductivity sensor
<b>Measure material</b>	Graphite
<b>Waterproof rating</b>	IP68
<b>Measurement range</b>	CON: 0.1-30ms/cm, TDS: 0~15g/L, Salinity: 0~18ppt, 1.8%, 18g/L
<b>Accuracy</b>	±1%F.S
<b>Pressure resistance</b>	≤0.8Mpa
<b>Temperature compensation</b>	PT1000 ATC
<b>Temperature range</b>	-10-80℃
<b>Measuring/Storage Temperature</b>	0-45℃
<b>Calibration</b>	Sample calibration, standard liquid calibration
<b>Connection methods</b>	4 core cable
<b>Cable length</b>	Standard 5m cable, can be extended to 100m
<b>Installation thread</b>	PG13.5
<b>Application</b>	General purpose