

SH-EC200 Conductivity digital sensor

● Overview

The SH-EC200 conductivity digital sensor has a built-in NTC temperature sensor and a compensation algorithm that automatically compensates for the effect of temperature on the measurement. The sensor uses RS485 interface and standard Modbus protocol.

● Product features

- Electrode constants are stable and unaffected by polarization
- Temperature compensation function, applicable to a wide range of environments
- Internal storage of calibration data
- Corrosion-resistant housing, waterproof grade IP68, to work underwater for a long time
- RS485 communication interface, standard Modbus protocol for easy integration.



● Technical specifications

Working principle	Two electrodes/four electrodes
Measurement range	(0~2000/5000/100.000) $\mu\text{S}/\text{cm}$, other ranges can be customized; Temperature: (0~50) $^{\circ}\text{C}$
Repeatability	<1 %
Accuracy	$\pm 1 \%$
Zero drift	$\pm 0.5 \%$ F.S.
Drift (24h)	$\pm 1 \%$
Resolution	1 $\mu\text{S}/\text{cm}$
Response time	10 s
Protection class	IP68
Comm. interface	RS485, standard Modbus protocol, baud rate 9600
Dimensions	($\phi 33 \times 224$) mm/($\phi 16 \times 180$) mm, cable 10m (customizable)
Weight	0.5 kg
Materials	316 Stainless-steel/PVC/POM/Titanium alloy available
Mounting threads	NPT3/4 thread on top, NPT3/4 male thread on bottom available
Operating voltage	9~36 Vdc
Power absorption	0.4 W
Calibration period	2-3 months
Max. depth	30 meters
Operating temp.	(0~50) $^{\circ}\text{C}$

● Product Applications

- Surface water, municipal and industrial wastewater, industrial process water, drinking water