



CS1501CD

Digital pH Sensor



The CS1501CD is a digital pH sensor with a glass measuring electrode and a silver–silver chloride reference. The transmitter electronics are built into the sensor body, so the pH value is transmitted to the analyzer digitally over RS485 MODBUS RTU rather than as a high-impedance analogue signal — this removes cable-length limits and largely eliminates electrical interference on the measuring line. Temperature compensation is provided by a built-in NTC 10K element.

RANGE
2 – 12 pH

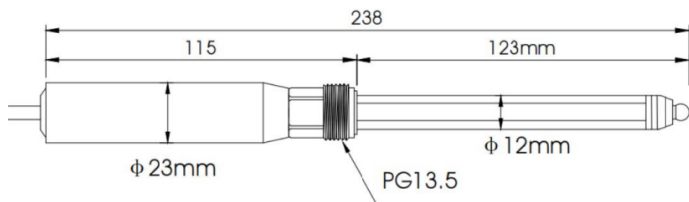
ACCURACY
±0.05 pH

OUTPUT
RS485 MODBUS RTU

PROTECTION
IP68 / IP65

TECHNICAL PARAMETERS

Measuring range	2 – 12 pH	Temperature range	0 – 60 °C
Accuracy	±0.05 pH	Temperature compensation	NTC 10K
Measuring element	Glass / silver–silver chloride	Calibration method	Sample calibration, standard solution calibration
Signal output	RS485 MODBUS RTU	Connection	4-core split cable
Power supply	9 ~ 36 VDC	Mounting thread	PG13.5
Power consumption	≤ 0.2 W	Overall length	238 mm · Ø23 / Ø12 mm
Housing material	POM + glass	Applicable media	Industrial water, environmental wastewater, river and lake water
Protection rating	IP68 measuring part / IP65 transmitter part		
Pressure range	0 – 0.3 MPa		



COMPATIBLE INSTRUMENTS

- T6200 Multi-parameter Online Water Quality Monitor (pH / ORP – ClO₂)