

SH-WMP700 Self-cleaning digital multiparametric probe

● Overview

The self-cleaning multiparametric probe is a water quality monitoring instrument applicable for treated waste water effluents, surface and sea water control. It adopts an innovative “all-in-one” modular design, which can be freely matched with a variety of sensors including dissolved oxygen, pH, conductivity, turbidity, ORP, liquid level, chlorophyll, blue-green algae, etc.; up to six sensors can be connected in the same probe’s body.

It supports reading and writing digital sensor parameters, which can be calibrated without disassembly.

Each sensor can be easily removed/substituted using fast plugin connectors.

It includes a central mechanical wiper for the periodic automatic cleaning of each sensor.



● Product features

- Built-in temperature and humidity sensor, automatic alarm for water leakage or voltage abnormality
- Removable cleaning brush for easy maintenance and replacement
- Automatic recognition of sensor type, plug and play, easy to use
- Storage of configuration parameters and calibration data inside each sensor
- Internal waterproof structure design, the sensor into the water does not affect the main body
- RS485 communication interface, standard Modbus protocol for easy integration.

Number of connectors	Up to 6 sensors
Cleaning method	With cleaning brush, cleaning cycle can be set, default 30min
Data communication	RS485, standard MODBUS protocol
Protection class	IP68
Cable Length	Standard 10 meters (customizable)
Power supply	24 Vdc
Power consumption	2.1 W
Probe dimension	($\phi 70 \times 280$) mm
Sensors dimension	($\phi 16 \times 146$) mm
Weight	1.5 Kg
Body material	AISI 316 / Titanium alloy (probe and sensors)
Operating temperature	0-50°C
Operating depth	Down to -70 meters (-10 meters if pH is included)

● Available sensors

Parameter	Model	Measurement range	Accuracy
Depth	SH-DPT220	(0~70) meters	± 0.02 m
pH	SH-pH220	pH (0~14); Temperature (0~50) °C	± 0.1 pH ± 0.5 °C
ORP	SH-ORP220	(-1500~1500) mV	±10 mV
Conductivity / Salinity / TDS	SH-EC220	(0~5000/100.000) µS/cm Salinity: (0~3/100) PPT TDS: (0~2500/50000) mg/L	±1 %
Dissolved oxygen (optical)	SH-DO220	(0~20) mg/L; Temperature: (0~50) °C	±0.3 mg/L ± 0.5 °C
Turbidity / TSS	SH-TUR220	(0~1000) NTU (0~1.000/3.000/10.000) mg/L	≤5 % of the measured value
Chlorophyll A	SH-CHL220	(0-50/500) µg/L; Temperature: (0~50) °C	≤3 % ± 0.5 °C
Blue-Green Algae	SH-BGA220	Phycoerythrin (sea water): (0~750) ppb Phycocyanin (fresh water): (200~300.000) cells/mL Temperature: (0~50) °C	≤3 % ± 0.5 °C

● Product applications

- Environmental surface water, municipal and industrial wastewater, sea water.