DIGITAL PH SENSOR - P500

Liquid Analysis

Measurement & Monitoring



DESCRIPTION

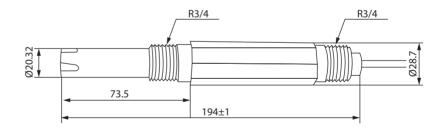
The P500 series digital pH sensor uses a composite electrode which is a combination of glass and reference electrode to measure pH value of liquid. The potential of the reference (internal) in glass combination electrode are constant regardless of pH measured in liquid. During the measurement, H+ concentration changes when there is a difference between stable potential of reference and potential measured liquid. It is measured by the voltmeter and apply as a pH measurement result.

The P500 is suitable for wide range of application such as water and wastewater treatment plant, chemical and biological plant and hydrology water surface monitoring.

FEATURES

- ✓ Digital sensor with RS485 signal output
- √ Strong anti-interference ability
- ✓ Comprehensive protection circuit design
- √ Good repeatability and stablity
- √ Fast response time
- ✓ Low maintenance cost

DIMENSION/DRAWING







01-2025

I-SYSTEM

TECHNICAL FEATURES

Operating Condition

Range0-14 pHMeasuring Temperature0 to 80°CPressure Range≤0.6Mpa

Sensor Performance

Accuracy ±0.01pH

Alkali Error 0.2pH (1 mol/L Na + pH14) (25°C)

Zero Potential pH Value 7±0.25pH (15mV)

Response Time ≤10 seconds (Reach 95% of the end value) (After stirring)

Electrical

Power Supply 12 VDC

Communication RS485 (Modbus)

Dimension and Protection

Dimension Diameter 30 mm, Length 195 mm

Protection IP68/NEMA 6P

Sensor Material PPS

Ag/Agcl reference gel

Signal Cable Length Standard 10 meter (Maximum 100 meter)

Mounting Thread 3/4" thread



 501/026