

ORP VWQS-ORP01

Data Sheet

Features

An Oxidation-Reduction Potential sensor from Verge Solutions, referred to as ORP. ORP is often used to indicate the relative degree of oxidation and reduction of environmental media (natural water, culture medium, soil, etc.).

The unit of ORP is mV. It consists of ORP composite electrode and mV (millivolt) meter. The ORP composite electrode consists of an electrode that can absorb or release electrons on the surface of its sensitive layer. The sensitive layer is an inert metal, usually made of platinum and gold, and is similar to the reference electrode (the same silver/pH electrode as the pH electrode). Silver chloride electrode) composition.

The ORP sensor is digital and outputs Modbus, it has IP68 waterproof protection, is affordable and high performance. Has long life and high reliability. It has high-quality low-noise cable. It is simple to calibrate and is part of the Verge Sonde system, allowing for periodic automatic sensor cleaning. Sensor could be utilized alone or part of Sonde.

Specifications

Parameter	ORP
Units	mV
Range	-1999mV to +1999mV
Resolution	1mV
Accuracy	+/-1mV
Protocol	RS485 Modbus
Temperature Limits	+5 to 50 degC
Voltage supply	9-24 VDC
Housing Materials	Acetyl
Cable Materials	Rubber
Cable Length	5m
Modbus Address (Adjustable)	15(DEC)
Wire colours	Red: V+, Black: V-, Yellow Modbus A, Green: Modbus B



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