



Recorder



Flow



Pressure



Temp



Analyzer



Level

Datasheet

ORP Glass Electrode

SUP-ORP-6045

Supmea[®]

Committed to process automation solutions

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Datasheet**ORP Glass Electrode
SUP-ORP-6045**

ORP glass electrode is a cost-effective analogue signal ORP electrode produced by our company, the electrode has good stability and long service life, and can be compatible with a variety of domestic or imported instruments. It is widely used for ORP measurement in various applications.

Applications

- Drinking water treatment
- Industrial circulating water treatment
- Soil environmental monitoring
- Food and Beverage Production
- Biochemistry experiment
- chemical production
- Materials Research

Features

- Electrodes are easy to use and waterproof;
- The response time of the electrode is fast, good stability and anti-interference ability.
- The electrode is not easy to be contaminated and blocked, and has a long service life.

**ORP Glass Electrode**

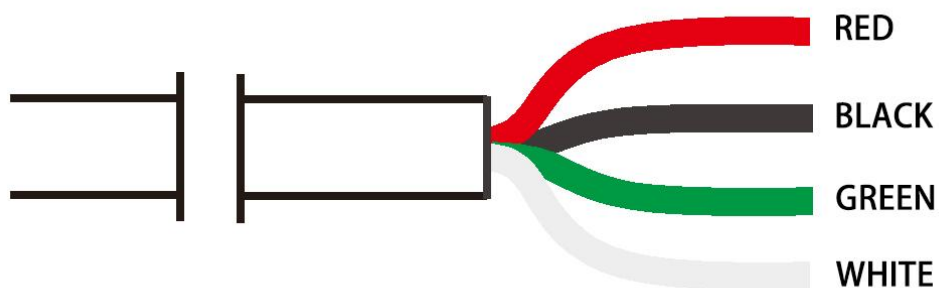
Principle

ORP sensor measure voltage or potential. ORP measurement is based on the potential difference measured in the solution by the working cell consisting of the measuring electrode and the reference electrode, and utilizes the linear relationship between the ORP value of the solution to be measured and the magnitude of the potential of the working cell to achieve online monitoring of ORP.

Parameters	
Item	Details
Measuring Range	(-1500 ~ +1500)mv
Operating Temperature Range	(0 ~ 80)°C
Pressure Resistance	4bar
Mounting Thread	PG13.5
Mounting Methods	Submersible Installation, Pipe Installation, Threaded Installation, Flange Installation
Conductor	Standard length is 5 meters, and appropriate length can be configured according to customer requirements.
Temperature Compensation	If temperature compensation is required, prior notice is needed.

Wiring

■ Sensor Cable



Sensor Cable Schematic

Color	Define
Red	VCC
Black	GND
Green	485A
White	485B

■ Wiring Note

Please check the wiring definition, power supply and communication interface before powering up.

Do not power up the unit until all wiring is complete to avoid accidents.

Please pay attention to the waterproof treatment of the electrical connector.

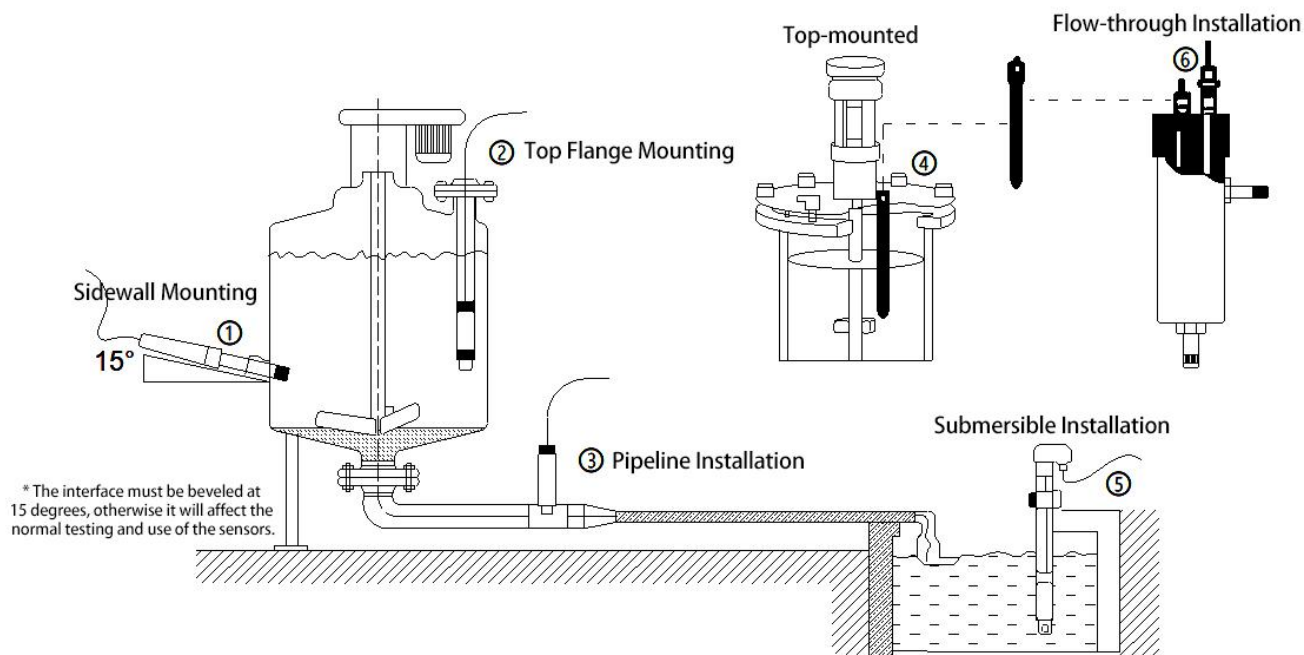
Do not extend the wiring.

Dimension



Installation

■ Installation



Sensors Common Installation Methods

Ordering code

SUP-ORP-6045 -ZY-C-G-0-00-SP							Description
SUP-ORP-6045	-	-	-	-	-	-	
Electrode Connector	ZY						Cable Connector
	S8						S8
	VP						VP
	XX						Others
Salt Bridge Type		C					Ring Shaped PTFE Diaphragm
Sealing Ring Material			G				Silicone Rubber
Temperature Compensation Type				0			No
				1			NTC 10K
				4			PT1000
				5			PT100
				2			NTC 22K
Cable Length					00		0m
					05		5m
					10		10m
					15		15m
					20		20m
					30		30m
					XX		Others
Housing Material and Thread Type						SP	Glass, PG13.5