

acniti

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Underwater Oxidant Meter

Discover the advanced Underwater Oxidant Meter designed for fast, accurate measurement of oxidants like chlorine and ozone in salt or brackish water—without the need for reagents. Its innovative self-cleaning and three-electrode technology ensure highly reliable performance, even in challenging marine environments. Learn how this rugged, easy-to-maintain instrument sets a new standard for water quality monitoring in industrial, environmental, and research applications



Underwater Oxidant Meter

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/var/www/cpw/site/modules/ProductPdf/ProductPdf.module.php on line YSY

- Reagent-free measurement No chemicals required 🗸
 - Automatic electrode cleaning 🗸
 - Quick measurements within \ minute 🕗
 - Suitable for a variety of water conditions 🗸
 - No waste of water <
 - Resistant to harsh environments <
 - Easy integration into existing systems <
 - Suitable for a variety of applications 🗸
 - (Wall mounting (and pipe mounting possible 🗸

?What does an Underwater Oxidant Meter do

The Underwater Oxidant Meter is an advanced measuring instrument that detects oxidants in salt and brackish water without the need for reagents. Thanks to potential pulse voltammetry with three electrodes, this meter provides fast and accurate .measurements and remains reliable due to an innovative self-cleaning system

An underwater Oxidant meter must not be confused with an ORP / Redox meter. See the :technology overview

ORP / Redox Meter	Underwater Oxidant Meter	Technology overview
Electrochemical potential difference F	-	Measurement
	(PPV) with three electrodes	Principle
General oxidation-reduction potential	Direct measurement of	
(a combined effect of all redoxo	xidants (e.g., chlorine, ozone,	Target
(species	(H_2O_2)	
No reagents, but indirect reading \square	No reagents required \square	Reagents Needed
Needs regular calibration for accuracy	Typically less frequent due to stable design	Calibration
Can be affected by high ionic \triangle strength and biofouling	Yes, optimized for marine I environments	Designed for Salt / Brackish Water

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ORP / Redox Meter	Underwater Oxidant Meter	Technology overview
Prone to fouling, requires regular maintenance		Fouling Resistance
Limited submersion, not always $ riangle$ pressure-rated	Submersible and rugged \square	Depth Rating
Moderate to slow, stabilizes over time	Fast, real-time detection 5	Response Time
Low — gives a general redox state only		Selectivity
Can drift, affected by contamination ☐ or coating on the probe	•	Stability Over Time

?Why an Underwater Oxidant Meter

In various industrial and environmental applications, it is essential to monitor the presence of oxidants in water. The Underwater Oxidant Meter allows you to control water quality parameters, allowing you to efficiently

- Avoid unnecessary water consumption •
- Works sustainably and is environmentally friendly without chemical reagents
 - Saves costs on maintenance through automatic cleaning •

Applications of the Underwater Oxidant Meter

The Underwater Oxidant Meter is used in various industries and applications. When you're looking for general water quality or are on a budget, consider an ORP meter.

Perfect applications for the Underwater Oxidant Meter.

- .Water Treatment Plants Optimize Disinfection Processes
 - Aquaculture in seawater •
 - (Precise oxidant monitoring (e.g., ozone dosing •
- **Seawater sterilization in fisheries** Ensure a clean environment for aquaculture
- Wastewater treatment in factories Meet environmental standards
 - **Swimming pools and spas** Maintain safe water quality •
- **Drinking water supply and sewage management** Prevent contamination
 - Industrial processes Control oxidation-related chemical reactions •

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Specifications

Details

Oxidants in seawater and brackish water Three-electrode potential pulse voltammetry Microelectrode system with self-cleaning beads mg/L (Standard) - Optional: 1. · · / ٣. · · / ۵. · · mg/L · - ٢. · ·

of full scale plus one digit ± \(\delta\)/.

(minute (٩٠% response)

Measurement Purpose Measurement Principle Measuring method Measuring range Response time

Feature

Automatic compensation with a thermistorTemperature compensation

pH range: Δ.λ-λ.۶ (variation within ± ·.Δ pH)

Conductivity: $\geq 1 \cdot mS/m$ (variation within $\pm 1 \cdot mS/m$)

Water temperature: - F∆°C (no freezing)

Ambient temperature: -1 · - ۴Δ°C

(**Humidity**: ≤٩٠/ RH (no condensation

(Wall mounting (Optional: Tube mounting with U-bolt kit

 $mg/L \cdot . \cdot 1$

(DC ۴- Y·mA (Isolated, maximum load Δ··Ω

(Upper and lower limit alarms (\a each

Adjustable range:

- ± \ · //. of full scale

- ± \alpha // of full scale

- ± ₹.۵% of full scale

Stainless steel Tube Stand (16... mm long).1

۲. Attachment kit for tube (۵۰A)

r. Connection box (sensor cable extension).

.(f. Dedicated extension cable (available in 1. m lengths

Repeatability

Conditions

Installation

Resolution Signal Output

Alarm outputs

Control output

Power supply

Pressure resistance

Optional accessories

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امپریال	متری ک	شرح	
EOXI-۴·	EOXI-+•	اسم مدل	١
EOXI-+·		شماره مدل	۲
امپریال	متری ک	مایع	
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