

The background of the entire image is a close-up, high-angle shot of teal-colored water with intricate, concentric ripples and waves, creating a textured, shimmering effect. The color is a vibrant, slightly dark cyan or teal.

OPRUSS

[www.opruss.com](http://www.opruss.com)

# OPRUSS AUTOMATICA

## Percentage Hydrogen (pH+ Temp)

OPRUSS technology introduces its most advanced glass electrode pH sensor with a digital output.

It works on the principle of the potential difference generated between a reference electrode inside the glass and a reference that is in contact with the solution outside of the glass pH measures the milli-volt difference in the system. Ion-swapping takes place on the inside surface of the glass electrode. The two solutions on either side of the glass have different acidic concentration, so a different amount of ion-swapping takes place on the two sides of the glass. This creates a difference in degree of hydrogen-ion activity on the two surfaces of the glass, thus a difference in amount of electrical charge builds up on them. This charge difference produces a difference in voltage that shows up as a measurement on the meter. OPRUSS contributes to this beautiful technology by selecting and manufacturing exact materials that comprise a perfect pH measuring sensor. Automatic diagnosis function for faults in electrode properties and smartly understands if there is a defect in the sensor and displays the error on the display unit. Temperature compensation element helps in acquiring precision readings.

Principle	Glass electrode type
Measuring range	1-14
Response time	10 sec
Accuracy	±1%
Assembly	Submersible
Operation temperature	0-50 Deg/cel
Interface output	RS-485 Two way communication enabled
Protection level	IP68
Maximum working depth	10 m
Power supply	AC 230V, for controller
Size	26 Diameter 177.5 Length (in mm)
Probe cable length	5 m, extendable
Interference resistance	Temperature compensation available
Maximum working pressure	6bar
Product material	SS316 POM
Temperature Range	2-55 C
Temperature Accuracy	± 5% (full scale)
Temperature Resolution	± 0.05 C



## KEY FEATURES FOR OPM SERIES SENSORS



Accurate and high resolution Realtime measurements



Easy integration – Plug to Run design



Integrated digital display for Realtime Monitoring and Data logging for advanced analytics



Remarkably Low Maintenance operation.  
Built-in Sensor Diagnostics for smart access over sensor performance details via Two Way communication



Reliable and robust operation to changing process conditions



Built-in Self-cleaning Mechanism



User Friendly Calibration

BOD

$C_3H_6O$

COD

TOC

Cr

As

TDS

pH

OH

$CH_2O$

Cy

$NH_3$

$C_2H_4O$

$C_3H_8O$

$CH_3CO$

ORP



## DDT SMART CONTROLLER

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Final product may vary with depicted images subjected to origin of requirement to adapt working conditions of the specific location of end user.