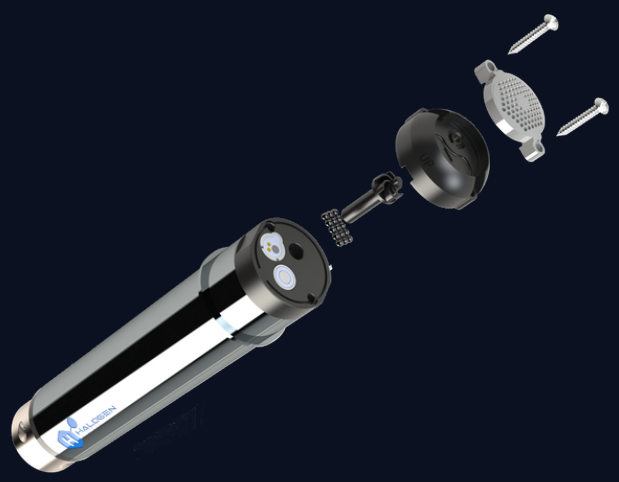
HALOGEN SYSTEMS

THE MP-ORP | SELF-CLEANING pH & ORP SENSOR

pH & ORP. Dirty water. Clean data. One sensor.

SensiCLENE self-cleaning keeps the electrodes and pH glass polished in the harshest, dirtiest water. High solids, biofilm, scale: the MP-ORP delivers months of unattended operation where other sensors quit.



4-in-1	0.1 mV	6+ mo	3,000 ppm	NSF-61
pH | ORP | TEMP | COND	ORP RESOLUTION	UNATTENDED OPERATION	TURBIDITY TOLERANCE	NSF/ANSI 372 | CE

Why operators are switching to MP-ORP

01

4 Parameters. One Probe.

pH, ORP, temperature, and conductivity from a single reagentless sensor. One tap point, one cable, one calibration.

02

Thrives in Dirty Water

Rated for turbidity up to 3,000 ppm. SensiCLENE beads scrub the electrodes and DryGLAS pH glass every cycle. No fouling, no drift.

03

No Reagents. No Membranes.

Three-electrode measurement with no electrolyte eliminates consumable costs and the risk of running dry.

04

Set It. Forget It.

6+ months of unattended operation. No service contracts, no weekly wipe-downs, no surprise glass replacements.

05

Flow Independent. Zero Waste.

Installs in a tank, pipe, wet tap, or side stream. Unaffected by flow or pressure, with no waste stream: save up to 70,000 gallons a year.

06

NSF-61 Certified

NSF-61/372 certified for drinking water contact. CE compliant for conducted and radiated emissions.



Wet Tap Inline
`MP-ORP-H2WT-P`



Side Stream / Immersion
`MP-ORP-H2LF-P`



PVC Inline
`MP-ORP-H2MF-P`



Panel Mount Kit
`MKIT-1002`

Technical Specifications

Measurement

Measurement Method	Reagentless, 3-electrode
Membrane / Electrolyte	None
Parameters	pH, ORP, Temp, Conductivity
ORP Resolution	0.1 mV
pH Range	6.5 - 9.0
Measurement Interval	20 - 60 seconds
Turbidity Tolerance	Up to 3,000 ppm
Conductivity Range	150 - 10,000 uS
Cleaning Method	Mechanical + electrochemical
Data Transfer	Modbus RTU (D20 or PLC)

Operating & Physical

Pressure Rating	10 bar (145 psi)
Sample Temperature	1 - 55°C
Operating Temp (ambient)	0 - 50°C (32 - 122°F)
Storage Temperature	-20 - 60°C (-4 - 140°F)
Max Flow Velocity	0 - 4 m/s
Max Immersion Depth	30 ft+ (140 psi)
Power	24VDC ±10% at 50mA
Startup Current	200 mA maximum
Cable	M12 4-pin, 5ft std (100ft max)
Dimensions / Weight	1.75" x 12" / 400g

Certifications

NSF-61/372 Certified (ALS Labs) | CE compliant: CISPR 11 (Class A), EMC immunity EN 61326-1 (industrial limits) | Warranty: 12 months

MP-ORP Sensor Configurations

MP-ORP-H2WT-P-[cable]	pH & ORP Wet Tap Inline (for use with RMR-WT)
MP-ORP-H2LF-P-[cable]	pH & ORP Side Stream / Immersion (order with FC-02 Flow Cell Kit)
MP-ORP-H2MF-P-[cable]	pH & ORP PVC Sensor Inline (for use with PT-01)

All models: pH, ORP, temperature, conductivity | 145 psi | [cable] = cable length, 5 ft standard (up to 100 ft)

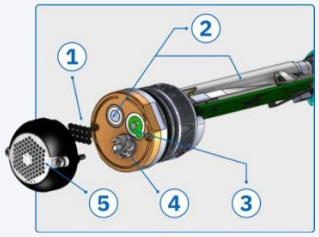
Accessories & Options

D20-H D20 Controller 120/240V	***PT-01*** CPVC Pipe Adapter (2" Tee)	***D20-OTA-H*** D20 Cellular Option
FC-02 Flow Cell Kit (Side Stream)	***RMR-WT*** Wet Tap Remover (2" Corp Stop)	***RMVRTL*** Sensor Remover Tool

SensiCLENE: Built for the Dirtiest Jobs

Where other pH and ORP sensors foul, coat, and drift, the MP-ORP keeps scrubbing. A long-life impeller drives continuous flow across the electrodes while captive SensiCLENE beads polish the surfaces and DryGLAS pH glass every cycle. The result: accurate readings in the hardest, dirtiest applications, with months of maintenance-free operation in tanks, pipes, or side-stream cells.

1. SensiCLENE cleaning beads
2. DryGLAS technology
3. Electrode surfaces
4. Impeller
5. Sensor cover



NSF-61/372 Certified | CE Compliant | Self-Cleaning | Factory Calibrated