Halogen Systems No Maintenance Chlorine Sensor

The Halogen MP5-A chlorine sensor can be installed in locations that are impossible for other sensors. The MP5-A is designed for low maintenance, with six months or more service intervals, and zero water waste, potentially saving up to 70,000 gallons of water per year.

These features are exclusive to the Halogen MP5-A, setting it apart from all other sensors in the market.

Features and benefits

Highest Accuracy

MP5-A chlorine reading is accurate over a wide range of temperature, pH, and conductivity conditions. It is accurate within ±4% over 6.5 to 8.5 pH, and chlorine measurement up to 20 ppm[1].

[1] Value1 derived from 9 sensors calibrated at a single point: pH 8.0 and chlorine level of 1.25 ppm at 2,700 µS and 20°C

NSF61 certification–no waste stream

MP5-A is rated for drinking water exposure and can be installed directly in a pipe. This results in enormous water savings of over 70,000 gallons per year per sensor.

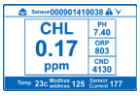
No reagents, no membrane

MP5-A is reagentless saving thousands of dollars over its lifetime. There is no need for monthly reagent or pump tubing changes, and no waste stream or chemicals are needed.

6 months, no maintenance

MP5-A does not require frequent calibration like membrane chlorine sensors. It can operate unattended for 6 months or more. Variables that cause other sensors to go out of calibration do not affect MP5-A.

5 parameters on 1 sensor



MP5-A provides operators with 5 critical water parameters every minute. It measures free chlorine, pH, conductivity, temperature, and oxidation reduction potential (ORP).

Factory calibrated

Our sensors often read accurately right out of the box and won't need expensive service contracts. Spares can be kept on the shelf and swapped out if necessary.

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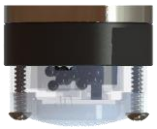
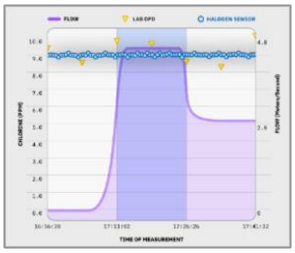
Self-cleaning



All electrodes are continuously cleaned and polished with cleaning beads. These beads also clean the pH sensor, which means the sensor does not require frequent calibration, cleaning, or service. This self-cleaning module makes each parameter “best in class” in reliability and accuracy.

Flow-independent

Since this chlorine sensor is unaffected by flow changes, it stays in calibration and can be installed virtually anywhere in your process. It does not require complete flow chambers or drains to waste.

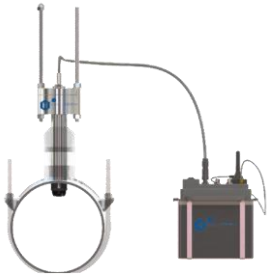


Battery options

An IP65 battery and IoT cellular modem enable remote sites to be monitored every 15 minutes, along with an expected battery life of over 6 months.

High pressure remover

A Wet Tap sensor and remover assembly enables installation in Corp Stop valve with conventional wet tapping equipment. Sensors can be installed in problem areas or dead ends to provide an early warning of an upset, equipment malfunction, or the need for flushing.



D20 controller



The Halogen D20 controller displays all 5 parameters on its graphic display. An integrated SD card records log files and enables reprogramming of both the sensor and controller. Two control relays can be used for operating chemical pumps and an alarm relay can be used for warnings. An optional cellular modem connects to the Cloud.

Easy install side stream panel mount

The MKIT panel is a complete solution. Just mount it on the wall, plug it in, and connect tubing to your process.



Immersion mount for remote tanks



Since flow is not required, it is ideal for remote tanks or clear wells. Unlike membrane sensors, the sensor reads zero chlorine and responds when chlorine returns without a memory.

Ask us for a demo

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