



## SCOTMAS GROUP

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**Scotmas Group**

Purify • Protect • Perform



# REMOTE ANALYSIS AND CONTROL SYSTEMS

Sentinel Guard™, Sentinel Link™ and Insite®

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# SENTINEL LINK™

Designed to work alongside our Bravo™ and Delta™ water disinfection systems, Sentinel Link provides reliable, wireless connectivity for water quality monitoring sensors placed at strategic points throughout buildings, giving total visibility of water hygiene parameters up to the point of use.

Capable of monitoring a range of water quality parameters, including flow rate, temperature, pH and residual disinfectant concentration, data is fed back to a central disinfection system using the highly resilient LoRA radio protocol where the data can be used to alter parameters such as disinfectant dosing, and is uploaded to our web based InSite platform.

	Sentinel Guard	Sentinel Link
Monitor water flows at remote locations	Yes	Yes
Monitor residual disinfectant concentration (Chlorine Dioxide, free chlorine etc.)	Yes	Yes
Monitor disinfection by-products (chlorite, total chlorine)	Yes	Yes
Monitor water quality parameters (temperature, pH, turbidity)	Yes	Yes
Local display & alarm indication	Yes	No
Feedback to Scotmas ClO2 generators	Wired / Modbus IP (1 sec data points)	Lora Radio (60 sec data points)
Local control of flushing valves depending on status	3 x Alarm / Relay outputs	No
Timer/relay control for periodic water line flushing	Yes	No
Direct uplink to Scotmas Insite web monitoring platform	Yes	Via Scotmas ClO2 generator only
Direct uplink to BMS / SCADA	Modbus IP / Hard Wired	Via Scotmas ClO2 generator only

# SENTINEL GUARD™

Sentinel Guard builds on the capabilities of Sentinel Link by providing local display readout and calibration. Automatic flushing of low frequency outlets can be achieved using a simple timer or logic driven according to water flow, taking into account low occupancy periods.

Sentinel Guard systems are particularly valuable in high risk laboratory or augmented care environments where it is necessary to shut off the water supply automatically in response to any deviation in agreed water quality parameters.

Sentinel Guard systems can be operated on a standalone basis with direct uplink to our Insite web based monitoring platform, or linked to our Bravo and Delta Chlorine Dioxide generators by Modbus or other hardwired link to provide automatic disinfection control.



Sentinel Link



Sentinel Guard

# INSITE®

Our off-site trending and alerting system, Insite is included as standard with all Sentinel Guard and Sentinel Link systems, and stores all measurements and service records securely on a cloud based system. Powerful analytics and AI algorithms can be applied to this data with full graphing and charting capabilities for trend analysis and out of spec reporting.

Our included Insite app also allows engineers and estates staff real time access and alerting to the status of your water hygiene system, without the hassle of legacy SMS systems.

Automatic weekly management reports can be generated in a graphical or CSV format, and submitted directly to Appointed Persons or consultants for full compliance visibility.