Chloroclam

. . . monitoring chlorine in water networks

SALAMANDER GROUP

KEY FEATURES

- Access the water via hydrant point enabling rapid deployment and recovery
- Bi-directional 4G cellular communications for remote configuration, data upload and alarming
- Bluetooth mobile app for local set up, control and data collection
- New design allowing user servicing and calibration
- High accuracy industry standard membrane sensor
- Submersible robust IP68 enclosure
- Powerful Clamnet Portal data management and visualisation
- External connections for flow meters and other water quality sensors
- A cornerstone for water quality Smart Networks
- Being used by charitable aid organisations in many parts of the world to help ensure drinking water is safe

CLAMNET

The Chloroclam is part of the Clamnet system of sensors, telemetered data loggers, mobile app and web portal. The Chloroclam can be used at hydrants or other convenient points on the watermains network to continually monitor and report chlorine residual data. Used alone or in conjunction with other sensors attached to the Clam RTU the Chloroclam is an ideal component of any Smart Network for drinking water quality.

CHLOROCLAM

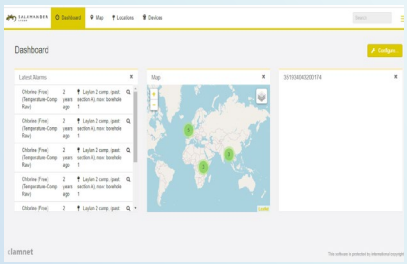
The original Chloroclam, as marketed by Evoqua on behalf of Salamander, has been revised to allow easier servicing. Battery changes, chlorine sensor servicing and calibration can now all be undertaken by the end user. It retains the industry standard, reliable and high accuracy chlorine sensor.

The Clamnet App is now available on Google Playstore and Apple Appstore and has been enhanced for greater control of the Chloroclam via bluetooth connection.

The low power consumption allows uninterrupted remote operation between the annual sensor service intervals. The bidirectional communications enables firmware upgrades, configuration changes and remote diagnostics as well as routine data uploads to the Clamnet Portal and instant alarming.

CLAMNET PORTAL

Data from the Chloroclam is stored and viewed on the very secure Clamnet Portal. With flexible device management and visualisation tools the portal can manage large Clam fleets. Data can also be exported as CSV files or via our API for incorporating in corporate SCADA systems.



Also available from Salamander: Clam RTU, Hydraclam, DPBclam, Gasclam

TECHNICAL SPECIFICATION

PARAMETER MEASUREMENTS

Chlorine	Free or Total Residual
Method/Type	Potentiostatic Membrane Sensor
Range	0.05 - 3.00 mg/l
Accuracy	± 5% of full-scale reading or ± 0.05 mg/l
Repeatability	± 0.05 mg/l
Resolution	0.01 mg/l

ENVIRONMENTAL

Waterproofing	IP68
Operating Temperature	0 - 40 °C
Storage	-20 to +70 °C
Mains Pressure	1 - 10 bar
Sample Flow	6 l/hr continuous

CALIBRATION

Lab commissioning using hypochlorite solutions at 0.1 and 1.0 mg/l

On-site against portable digital meter (e.g. Palintest Chlorometer Duo)

COMMUNICATIONS

Cellular data	4G network
Modem	4G Internal antenna, external option

OPTIONAL SENSOR INPUTS

Hydraclam	Turbidity, Conductivity, Pressure and Temperature
Flow	4 - 20 mA, 0 -10V or pulse

EMC

Chloroclam	EN 61326-1:2006
	EN 301- 489-1 vs1.6.1
	EN 301- 489-3 vs 1.4.1

INTERNAL POWER

2 x LSH20 3.6V High Discharge Lithium Ion Battery

WEIGHT

0.5 kg approx.

MEMORY

Up to 50,000 data points within the device

DIMENSIONS

Approx. 170mm height x 160mm diameter

DATA INTERVALS

Programmable between 1 minute and 1 hour

DATA STORAGE

Secure web portal on AWS, data can be extracted via API

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