inteliSYS
...enabling continuous water quality intelligence

chloroclam®

CLAMNET

The ChloroClam is part of the Clamnet system of sensors, telemetered data loggers 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. The ChloroClam is an ideal component of any Smart Network for drinking water quality.



CHLOROCLAM

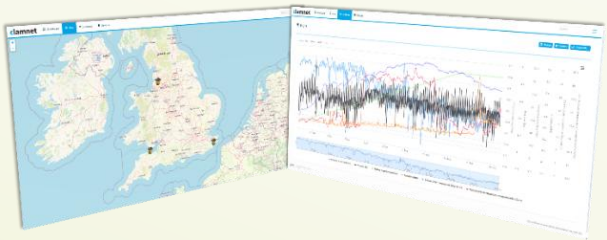
As a compact combination of a chlorine specific drinking water quality monitoring device with built in datalogger and telemetry, the ChloroClam, has been proving its worth for over 15 years. The CC-H5 and CC-H6 models feature the Halogen Free Chlorine and Total Chlorine Sensors that do not need re-agents and can be used in-pipe or with water returning to supply.

Control of the clam unit can be completed using a Wi-Fi Interface Tool and any Wi-Fi enabled device eg a smartphone.

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 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.



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
- Wi-Fi Interface device 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
- NSF-61 Certified allowing for no-waste connections and in-pipe monitoring

TECHNICAL SPECIFICATION – MODELS CC-H5, CC-H6

CHLORINE SENSOR

Chlorine	Free Chlorine (H5) or Free and Monochloramine (Total) Residual (H6)
Method/Type	Reagentless bare electrode amperometric
Range	H5: 0 - 20 ppm, H6: 0- 10 ppm
Accuracy	± 5% of full-scale reading or ± 0.06 ppm, greater
Compliance	NSF-61/372 Certified
Calibration Stability	6 months (typical)
pH range	6.5-9.0
Resolution	0.001 ppm
Cleaning Method	Continuous Mechanical Cleaning
Flow Control	Integrated micro-pump (0-4 m/s).

CALIBRATION

Initial factory calibration. Requires on-site single point calibration against portable digital meter (e.g. Palintest Chlorometer Duo) after 1 hour (H5) or 24hrs (H6)

OPTION

Flow Meter	4 - 20 mA, 0 -10V or pulse

EXTERNAL POWER OPTIONS

External Lithium Ion Battery

Wired 12V Supply

Solar Panel and rechargeable battery

Contact us regarding details or further option choices.

MEMORY

Up to 50,000 data points within the device

DATA INTERVALS

Programmable between 1 minute and 1 hour

ENVIRONMENTAL

Waterproofing	IP68 (1m, 1hr)
Operating Temperature	0 - 40 °C
Storage	+5 to +40 °C
Mains Pressure	1 - 10 bar
Water use	Zero if returned to supply (Compliant) Dependent on logging frequency if sent to waste

COMMUNICATIONS

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

EMC

ChloroClam	EN 61326-1 EN 301- 489-1 vs1.6.1 EN 301- 489-3 vs 1.4.1

WEIGHT

0.5 kg approx.

DIMENSIONS

Approx. 170mm height x 160mm diameter

DATA STORAGE

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

Contact: info@intelisys.co.uk

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