

ARGES Chloride Sensor

Safeguarding Water Quality: Monitor Chloride Levels with Confidence

The **ARGES Chloride Sensor** is an intelligent submersible sensor manufactured by **Keynes Controls**. It is a single-channel instrument capable of detecting and reporting chloride levels in water, with temperature-compensated measurements output in SI units such as **ppm, mg/L, and mol/dm³**. This enables:

- Accurate, reliable water quality monitoring across freshwater, drinking water, and environmental applications
- Easy integration with data logging, PLC, and SCADA systems

Why Measure Chloride: Measuring chloride levels in water helps evaluate overall water condition, identify changes that may affect taste or environmental health, and provide dependable chloride data for freshwater, drinking water, and environmental monitoring applications.

Pollution Detection: Chloride measurement helps detect pollution by identifying sources such as road salt runoff, industrial discharge, or sewage contamination. The **ARGES Chloride Sensor** tracks these changes in real time, enabling operators to respond early and protect both aquatic ecosystems and drinking water supplies. Reliable chloride data supports environmental protection and public health across a wide range of water systems.



OPC-UA Communications - (Open Platform Communications Unified Architecture) Contact [Keynes Controls](#) for further details.

The ARGES Chloride Sensor - Fast, Simple Chloride Monitoring!



Constructed from high-grade stainless steel tubing, the **ARGES Chloride Sensor** is designed for use as a stand-alone laboratory instrument or as part of a multi-parameter device within a SONDE, making it ideal for fixed installation monitoring applications.

The sensor is purely digital in operation and offers high performance measurements. The advanced power saving design ensures the sensor is ideal for remote operations. The sensor can be used as a standalone sensor or as part of a multiparameter system. **Easy to use, fairly priced, and built to deploy in minutes.**

All ARGES fluorometers have built-in temperature sensors that can be used to record the sample temperature.



Chloride Technical Features

Type	Range
Solid state ISE sensor	
Measurement range:	1-35, 500 ppm - User defined range
Chloride Resolution:	0.01 ppm
Chloride Accuracy:	Chloride accuracy = +/- 10% of reading
Built-in Digital Communications	SDI12 / RS485 / MODBUS (16 & 32 Bit Registers)
Sensor life:	Re-calibrate after 3 months depending on usage
pH Range	1-12
SI Units SDI12 V1.4	ppm, mg/L, mol/dm ³ , °C -- temperature compensated measurements
Sensor Element	Solid State Half Cell & Reference
Interference IONS	Rb ⁺ , Cs ⁺ , NH ₄ ⁺ , Na ⁺ , Ca ²⁺ , Mg ²⁺ , Li ⁺

Why Measure Chloride Levels

The recommended secondary standard limit for **chloride** in drinking tap water is **250 mg/L** (or parts per million). Levels below this are safe, though concentrations above 250 mg/L can give water a salty taste and increase pipe corrosion. Tap water is often well under 150 mg/L. The ARGES Chloride sensor can measure Chloride concentration to meet water quality standards.

Communications

All ARGES chemical sensors support SDI12, RS485 and MODBUS operations. The sensor acts as a slave unit when used compatible controllers and SCADA systems, the sensor supports 16- and 32-bit register addressing. A range optional USB converters are available to connect the sensor a Windows PC connection. The media converts can power the sensor directly from a PC USB port.

Product Size

Small enough to fit into outlet pipes. Dimensions Length x Diameter: 22 x 205 mm

Q-LOG Product Application Software

The ARGES Chloride Sensor is supplied with the free Q-LOG software for Windows. An optional USB interface connects sensors directly to a PC.



Commonly used with: Nitrate, pH & Ammonium Sensors.

The ARGES Sensor has been designed for submerged operation. There are no refillable chemical reagents. The sensor uses solid crystal based cells that are less sensitive to the effects of pressure when submerged compared to traditional sensors.

For more information, please visit the website: www.keynes-controls.co.uk