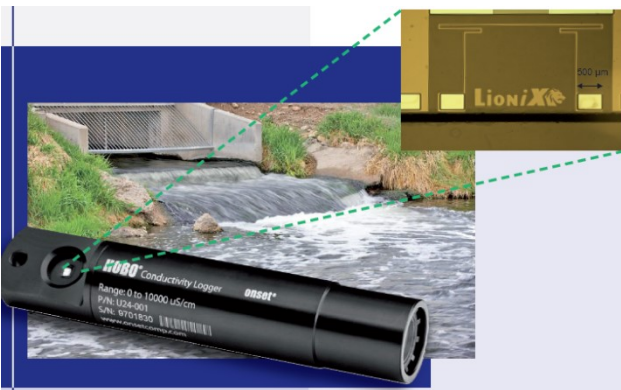


MEMS Solution for Onset

Conductivity data logger for environmental monitoring



Product specifications

The data logger gives stable values for conductivity, due to the capacitive measurement method using dedicated thin film materials.

| | Sensor | |
|--------------------------------|--------------------------------------------------------------------------------------------------|------------------------------|
| | Conductivity | Temperature |
| Callibrated Range | Low Range: 0 to 1,000 $\mu\text{S}/\text{cm}$ Full range: 0 to 10,000 $\mu\text{S}/\text{cm}$ | 5° to 40°C (41° to 104°F) |
| Extended Range | Low Range: 0 to 2,500 $\mu\text{S}/\text{cm}$ Full Range: 0 to 15,000 $\mu\text{S}/\text{cm}$ | 0° to 40°C (32° to 104°F) |
| Accuracy (in calibrated range) | 3% of reading, or 5 $\mu\text{S}/\text{cm}$, whichever is greater | 0.1°C (0.2°F) |
| Resolution | 1 $\mu\text{S}/\text{cm}$ | 0.01°C (0.02°F) |
| Response time | 1 second to 90% of change | |

Application

The Onset HOBO® U24 Conductivity data logger is ideal for measuring and monitoring the impacts of pollutants such as road salt, agricultural runoff, chemical spills and salt water intrusion on water supplies and aquatic ecosystems.

Conductivity of water is affected by pollutants, especially those containing inorganic dissolved solids. The electrical conductivity of water decreases as its purity increases.

By continuously monitoring conductivity at multiple sites along a stream or in a well the location and timing of spikes of high conductivity can be determined. As a result, identification of contamination sources becomes possible.

ONSET®

Onset

Onset is the world's leading supplier of data loggers. The company's HOBO® data logger and weather station products are used around the world in a broad range of monitoring applications, from verifying the performance of green buildings and renewable energy systems to agricultural and coastal research.

Based in Cape Cod, Massachusetts, Onset has sold more than 2 million data loggers since the company's founding in 1981.

The Onset Advantage means that customers can rely on accurate data, using simple and cost-effective solutions. This goes together with more than three decades of application expertise with a world class customer service department.

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