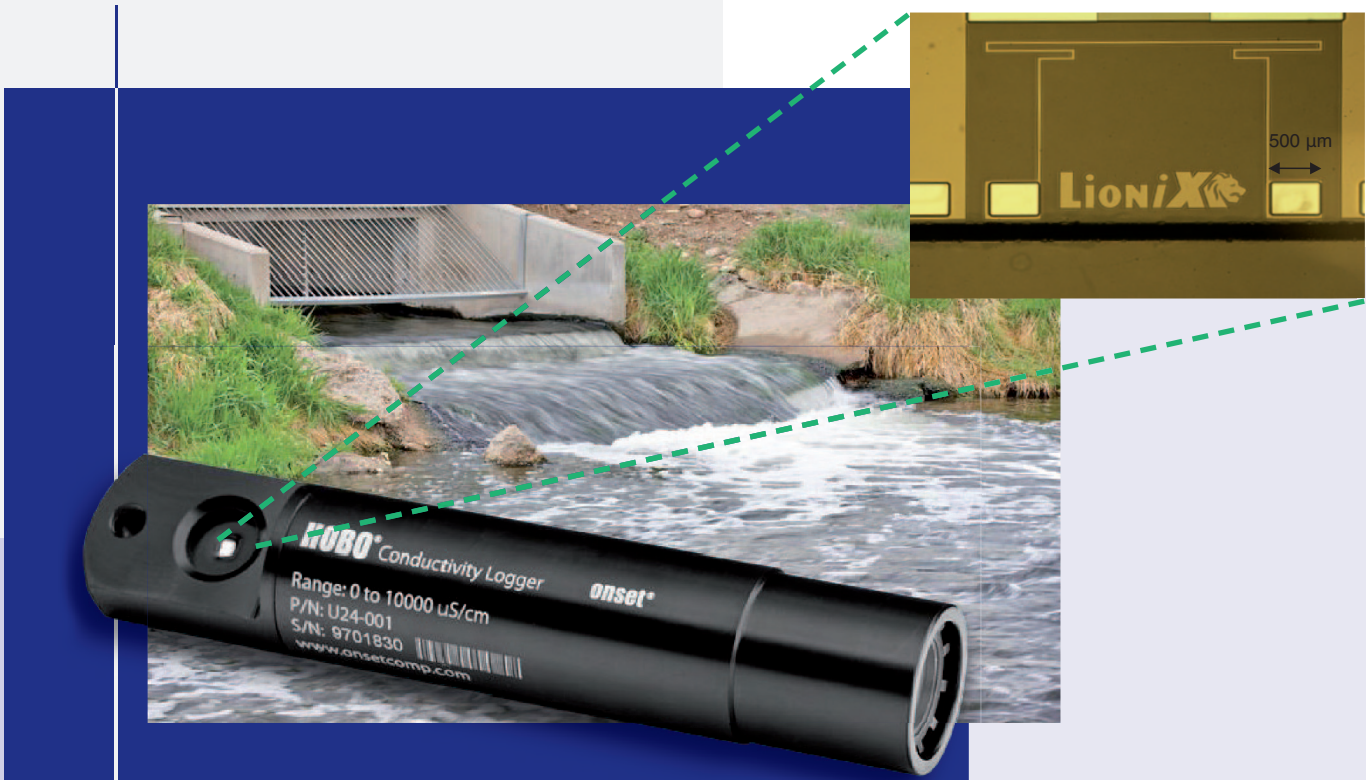


A solution for:

# onset®

## Conductivity data logger for environmental monitoring



### 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.

### Product specifications

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

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

Chip design and manufacturing by:

# LioniX

## LioniX BV

LioniX BV is a global leading provider in the development and production of innovative and leveraging products based on micro/nano technology. LioniX also provides MEMS foundry services.

Our customers operate in the Data/Telecom, Industrial Process Control, Life Sciences and Space markets, among others. They include innovative OEM's, VC-funded start-up companies, multi-national corporations, and research institutions located around the world.

The core competencies of LioniX include integrated optics, micro/nanofluidics and related surface functionalization. Additionally, LioniX has been successful in combining these core competences in one technology platform, enabling unparalleled innovative product concepts for their customers.

LioniX offers design-for-manufacturing and horizontal integration through partnerships with other micro/nanotechnology foundries and suppliers of complementary technologies such as micro electronics, biotech, chemistry/pharma, medical, food, water and space. These relationships are based on subcontracting agreements, licensing of IP and/or joint ventures.



### LioniX BV

PO Box 456  
7500 AH Enschede  
The Netherlands

Phone: + 31 (0) 53 489 3827  
Fax: + 31 (0) 53 201 1303  
E-mail: [info@lionixbv.nl](mailto:info@lionixbv.nl)  
Web: [www.lionixbv.nl](http://www.lionixbv.nl)

## Onset

Onset is the world's leading supplier of data loggers. The company's HOB0® 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 1.5 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 two decades of application expertise with a world class customer service department.



### Onset

PO Box 3450  
Pocasset, MA 02559-3450  
USA

Phone: + 1 800 564 4377  
Fax: + 1 508 759 9100  
E-mail: [sales@onsetcomp.com](mailto:sales@onsetcomp.com)  
Web: [www.onsetcomp.com](http://www.onsetcomp.com)