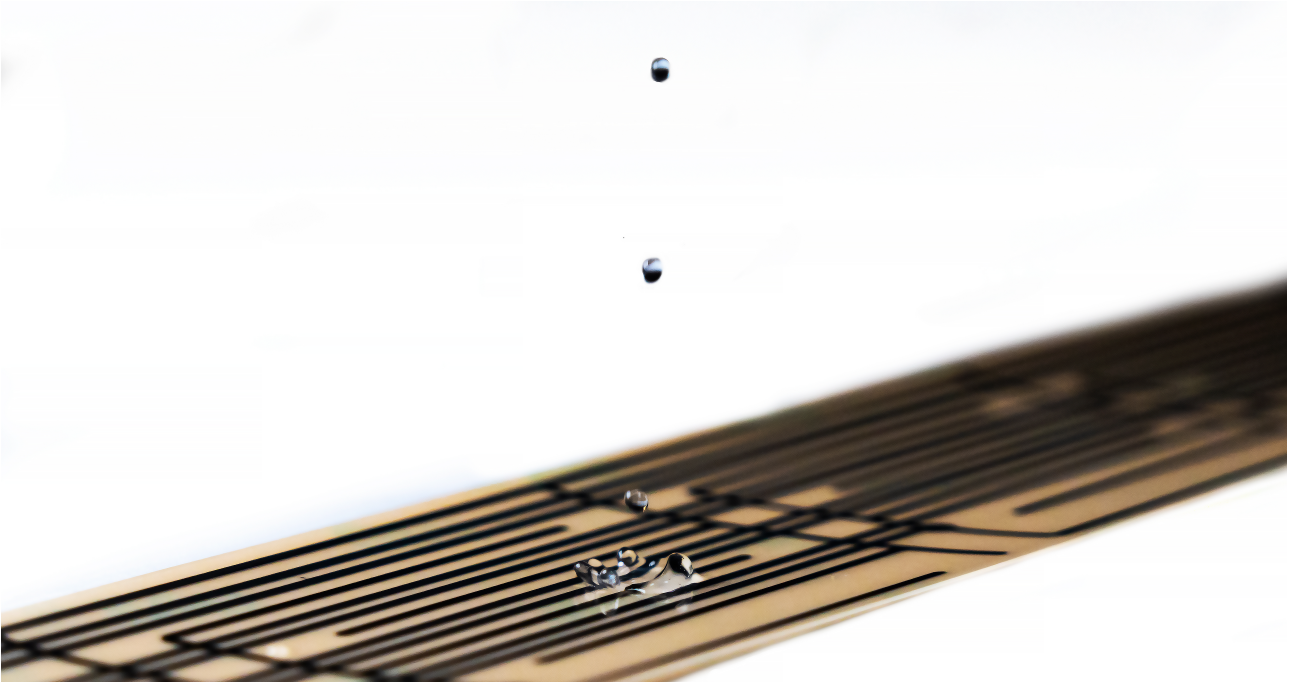


# Severn Evaluation Kit

Datasheet

## Introduction

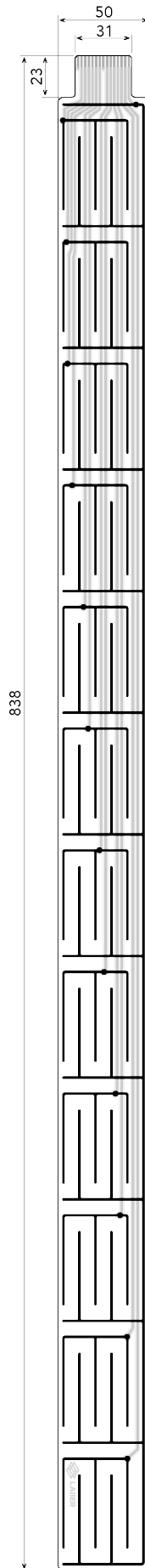


The Severn Evaluation Kit allows you to explore LAIER's Severn technology and test the Severn Sensor against your use cases. It contains the Severn Evaluation Board and LAIER's resistive Severn Sensors.

The sensor's primary and first use case is detecting the presence of water and being able to identify water leaks early. The sensors are constructed from a polyethylene terephthalate (PET) polyester substrate printed with carbon ink. Printed designs determine system sensitivity. Sensors have up to 12 individual electrodes which allows you to pinpoint the location of the water on the sensor.

The Severn Evaluation Board uses USB to power the board and to send the data via Serial to a computer. There, the data can be explored and analysed with any software that can input serial data.

## Severn Sensor Dimensions



## Severn Sensor Specifications

Sensor Dimensions	838 × 50mm
Sensor Weight	18g
Operating Temperature Range	-30°C to 60°C
Operating Humidity Range	< 90%RH
Substrate	PET Polyester
Conductive Ink	Carbon
Adhesive Backing	3M Removable Re-positionable Double Coated Tape 9425HT
Sensor Connector	FFC

## Severn Evaluation Board Specification

Board Dimensions	95 × 60 × 24mm
Board Weight	70g
Operating Voltage	3.6V
Power Supply	USB Micro
Communication Interface	Serial
Housing	Nylon, not currently IP rated
Sensor Connector	FFC

## Document Information

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