

Trent Evaluation Kit

Datasheet

Introduction

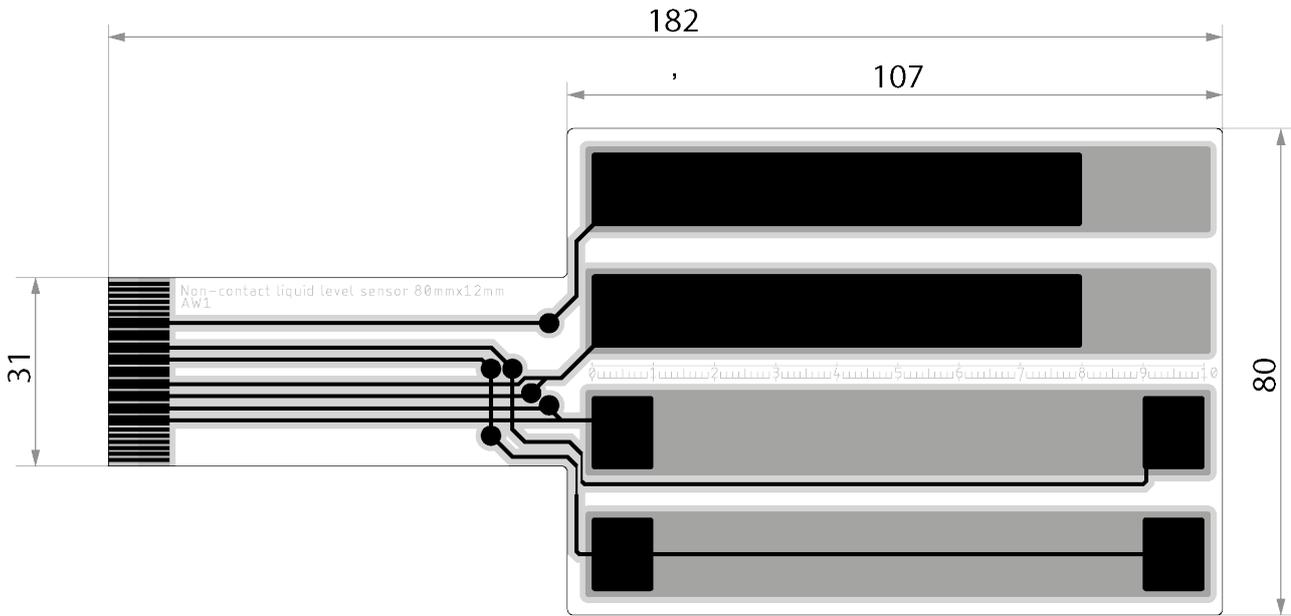


The Trent Evaluation Kit allows you to explore LAIER's Trent technology and test the Trent Sensor against your use cases. It contains the Trent Evaluation Board and LAIER's capacitive Trent Sensors.

The sensor's primary and first use case is measuring the level of a liquid within non-conductive containers. The sensors are constructed from a polyethylene terephthalate (PET) polyester substrate printed with carbon ink. A sensor is composed of three individual electrodes, that combined, report any changes in the level of the measured liquid.

The Trent 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. The resolution of the sensor depends on the thickness, volume and material of the container.

Trent Sensor Dimensions



Trent Sensor Specifications

Sensor Dimensions	182 × 80mm
Sensor Weight	2g
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

Trent 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

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