

# Mouse Touch-Pad Force S-Type

Industry: IoT

## Summary

### Customer Challenge

A laptop manufacturer wants to test their mouse touch-pads. They want to ensure it is functioning properly, with just the right amount of sensitivity when touched. They need a system that measures the force it takes for the mouse pad to activate a response on the laptop. A wireless system is needed in order to compare and log different measurement results.

### Interface Solution

Interface suggests using the SMTM Micro S-Type Load Cell, from their Interface Mini™ line. The SMTM can be installed in the customer's actuator test rig. The SMTM will record the amount of force it takes to press on the track-pad and create a response, on different areas of the track-pad. The actuator will aid with tactile feedback by providing movements such as dragging or creating friction. The measurements can be captured using the 9330 Battery Powered High Speed Data Logging Indicator through an SD card, or another laptop directly.

### Results

The SMTM Micro S-Type Load Cell was able to measure the forces applied to the mouse touch-pad at different locations. Interface's products successfully measured the forces needed to make the mouse touch-pad create a response.

## Materials

- SMTM Micro S-Type Load Cell
- 9330 Battery Powered High Speed Data Logging Indicator
- BlueDAQ Software
- Customer's touch-pad being tested
- Customer's Actuator test rig

## How It Works

1. The SMTM Micro S-Type Load Cell is installed in the customer's actuator test rig.
2. The actuator uses the SMTM and presses on the mouse's touch-pad at different locations.
3. The SMTM is connected to the 9330 Battery Powered High Speed Data Logging Indicator, with included BlueDAQ software, where force results from the touch-pad test can be captured using an SD card, then displayed on another PC or laptop.

