

Peel Testing Load Cell

Industry: Test and Measurement

Summary

Customer Challenge

A peel test measures the properties and strength of an adhesive bond. Peel tests involve applying a tensile force to a flexible substrate that is bound by an adhesive to either another flexible substrate. This can be tape, thin film, or rubber, or a rigid substrate such as metal, or rigid plastic. A force measurement system is required for the peel test.

Interface Solution

Interface's 1200 Standard Precision LowProfile™ Load Cell is installed into the peel test frame. The peel test is conducted, and force results captured by the load cell are sent and synced using the SI-USB4 4 Channel USB Interface Module. These results can be displayed on the customer's PC with supplied software.

Results

The peel test was properly conducted using Interface's low profile load cells. The customer was able to determine the strength of the adhesive bond being tested.

Materials

- 1200 Standard Precision LowProfile™ Load Cell
- SI-USB4 4 Channel USB Interface Module with supplied software
- Peel test frame
- Customer laptop

How It Works

1. The 1200 Standard Precision LowProfile™ Load Cell is installed into the customer's peel test frame.
2. The adhesive bond is applied to a substrate. The peel test is conducted.
3. The amount of force used during the peel test is captured by the SI-USB4 4 Channel USB Interface Module, and can be displayed when connected to the customer's PC with the supplied software.

