

Jumper	On	Off	Description
W2	1, 2		When 14 or fewer load cells are connected, internal power (12V) can be used, and the jumper should close pins 1 and 2.
		2, 3	When more than 14 load cells are used, external power is necessary and the jumper should close pins 2 and 3.

Sealing the Enclosure

When the IND780 terminal is used in a metrologically “approved” application, it must be protected from tampering by use of seals. An optional sealing kit is available from METTLER TOLEDO that contains all the required hardware (Part number 64056538). Note that when the terminal is sealed non-metrological components cannot be serviced without breaking the seal.

Figure 2-71 and Figure 2-72 show the components of the sealing kit and how to use them, respectively.



Figure 2-71: Components of the Sealing Kit: Wire and Seal (left) and Screw (right)



**Figure 2-72: Use of the Sealing Kit:
Wire Through Screw (left), Wire Through Seal (center), Seal Closed (right)**

Panel Enclosure Sealing

The Panel Mount enclosure must be sealed internally and externally. Follow these steps:

1. Ensure that the appropriate approval region has been selected in setup under Scale > Type > Approval and that the Metrology security switch S1 is in the “on” position.
2. Install the Security Cover to prevent access to S1, the Metrology Security Switch indicated in Figure 2-73, Main PCB Switches.

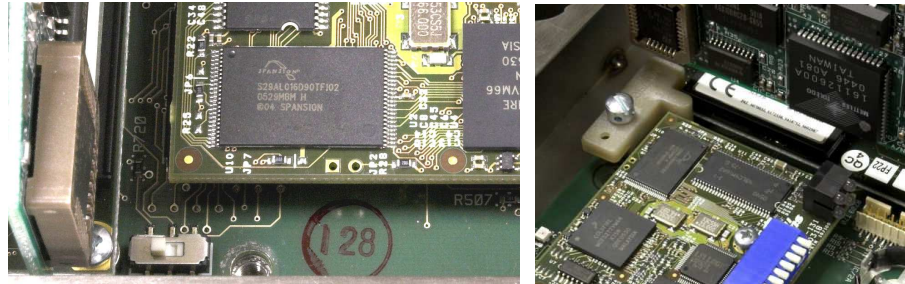


Figure 2-73: Metrology Security Switch (left) and Cover Installed (right)

3. To protect the load cell interconnecting cable/s (attached to option boards), a security seal must be placed over the connectors to ensure that they are not removed or disconnected. The seal also prevents access to the wire retaining screws indicated in Figure 2-74. Figure 2-75 shows a seal in place.

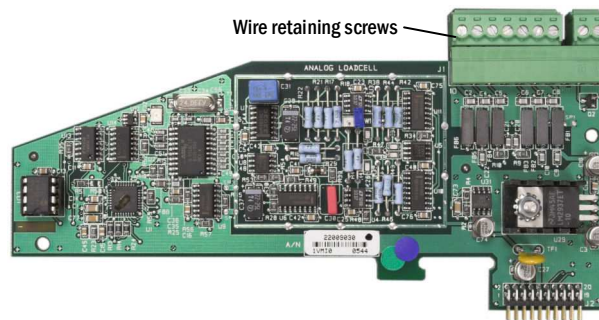


Figure 2-74: Unprotected Option Board Connection

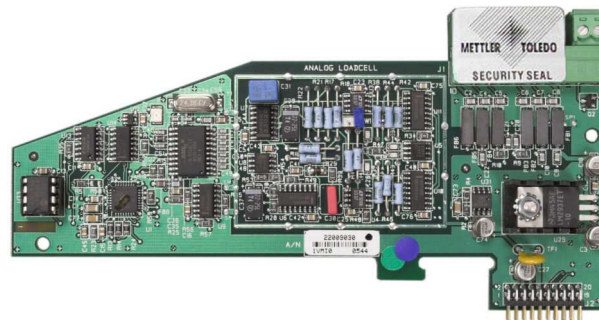


Figure 2-75: Security Seal Installed

4. Finally, the back panel of the enclosure is sealed. Three sealing screws are indicated in Figure 2-76 – two secure the panel in place on its stand-offs and one secures one end of the upper card guide.

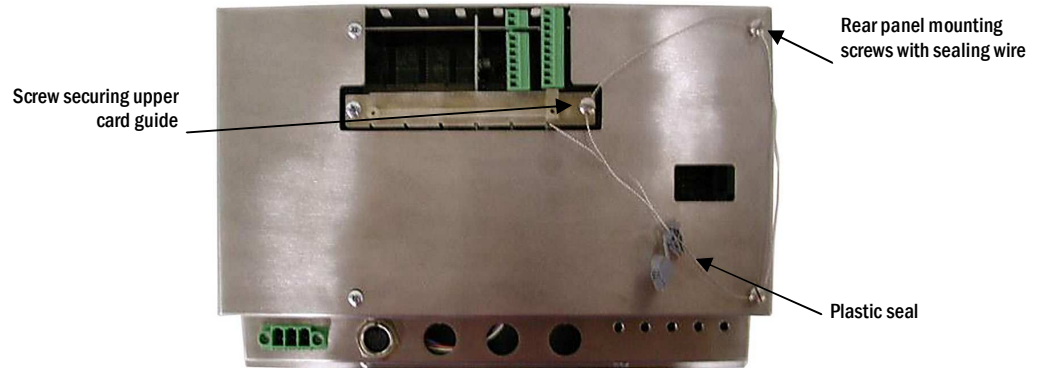


Figure 2-76: 3-Point Sealing, Panel Enclosure Rear Cover

5. With the screws installed, thread the sealing wire through each of them, then thread its ends through the plastic seal.
6. Remove most of the slack from the wire, and snap the seal shut.

Harsh Enclosure Sealing

For external sealing of the harsh enclosure, refer to Figure 2-77 and follow these steps:

1. Ensure that the appropriate approval region has been selected in setup under Scale, Type, Approval and that the Metrology security switch S-1 is in the “on” position.
2. Thread the end of the wire seal through the hole in the bottom edge of the IND780 front panel, and through the hole in the center clip of the IND780 front panel.
3. Remove the slack in the wire seal and snap the front panel down to the enclosure so that it snaps in place in all four corners.
4. Remove any remaining slack in the wire cable.
5. Thread the end of the wire cable through the plastic seal and snap the seal shut. Note that, to show the relationship between the components, Figure 2-77 shows the cover open, the wire slack, and the seal not yet shut.

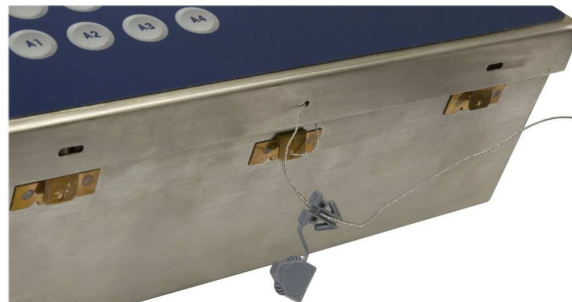


Figure 2-77: External Sealing of the Harsh Enclosure