

## Technical Note

### Remtron™ | Destruction Testing (Applies to Remtron 325, 411, 611)

#### Objective:

1. Stress test the CAT-IR OCU membrane switches and VHB adhesive against temperature variation for failures.
2. Stress test the CAT-IR OCU membrane switches and VHB adhesive against extreme acidic conditions for failures.

#### Test 1:

- Setup: A CAT-IR housing and attached membrane was inserted in a salt bath and cycled through temperature extremes for 4 days.
- Results: Membrane switches remained mechanically operational; adhesive did not fail.

#### Test 2:

- Setup: Create an acidic solution (pH roughly equal to 1), soak for at least a day and see if we can get the membrane adhesive to peel. The OCU was soaked in the acidic solution (34.1% HCL) for 72 hours.
- Results: Membrane switches remained mechanically operational; adhesive did not fail.



Before and After Photos

Post-Test Picture: Note the adhesive held on the membrane switch. Switches mechanically operational.

