



## **B A S Dealer Service Note 08/13/96**

### **Type 3 Wall Sensor Partial Output Failure**

#### **Description of Problem**

Some Type 3 wall sensors have experienced reduced signal output several months after installation. This reduced output is interpreted by the RSC as a lowered space temperature. Some sensors have reported temperatures as much as 20° F below the actual temperature. Any sensors reporting lower than expected temperatures should be checked for this problem before being recalibrated or returned for warranty repair.

#### **Extent of Problem**

This problem affects approximately 2-4% of all wall sensors manufactured 10/95 thru 6/96. These sensors can be identified by the size and color of the capacitor at C2. A small yellow capacitor (3.5 mm x 3.5 mm x 2 mm) is the problem component. Sensors with a larger brown or green capacitor (5 mm x 5 mm x 2 mm) are not experiencing problems. All sensors shipped after the date of this Service Note will be marked Type IIIA and will not be affected by this problem.

#### **Cause of Problem**

Capacitor C-2, installed across the output of the sensor's amplifier, is failing prematurely. The capacitor will then limit the output of the amplifier.

#### **Solution**

This capacitor can be removed from the circuit board without affecting performance of the sensor. It is one of 4 capacitors installed for noise reduction. In addition, components are also installed on Type 3 RSCs to limit noise on analog inputs. The capacitor can be removed by cutting the two leads with a small pair of wire cutters. Remove the power supply lead from the wall sensor before cutting the leads.

