

**Troubleshooting:**

Battery load test fails	<ul style="list-style-type: none"> <li>• Charge the battery fully for best results.</li> <li>• Replace battery.</li> </ul>
Voltage drop test fails	<ul style="list-style-type: none"> <li>• Use SECO-LARM ST-HB105TTQ Voltage booster to increase the amount of voltage present.</li> <li>• Reduce length of wiring.</li> <li>• Increase thickness of wire.</li> </ul>
PTC fuse test fails	<ul style="list-style-type: none"> <li>• Check soldering to make sure it is correctly applied</li> <li>• Replace PTC fuse</li> </ul>
Polarity test fails	<ul style="list-style-type: none"> <li>• Change orientation of wiring.</li> </ul>

**Also available from SECO-LARM:**

Voltage Booster



ST-HB105-TTQ

Voltage Converters



ST-LA105TTQ  
(shown)

Ground Loop Isolator



VG-1C12AQ

Video, Power, Data Balun  
with Voltage Converter



EVT-PB1-L05Q

DC Jack to  
Terminal Block



CA-161R

Illuminated Power  
Connectors



CA-1615-06LQ


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ST-BT01Q.docx  
Order Part # XXX-XXX-XX

**SECO-LARM U.S.A., Inc.**

# ENFORCER® Security

## MANUAL ST-BT01Q

### 5-in-1 Battery Tester



**Performs the following tests:**

- Voltage Test
- Battery Load Test
- Voltage Drop Test
- PTC Fuse Test
- Polarity Test

**SLI® SECO-LARM®**

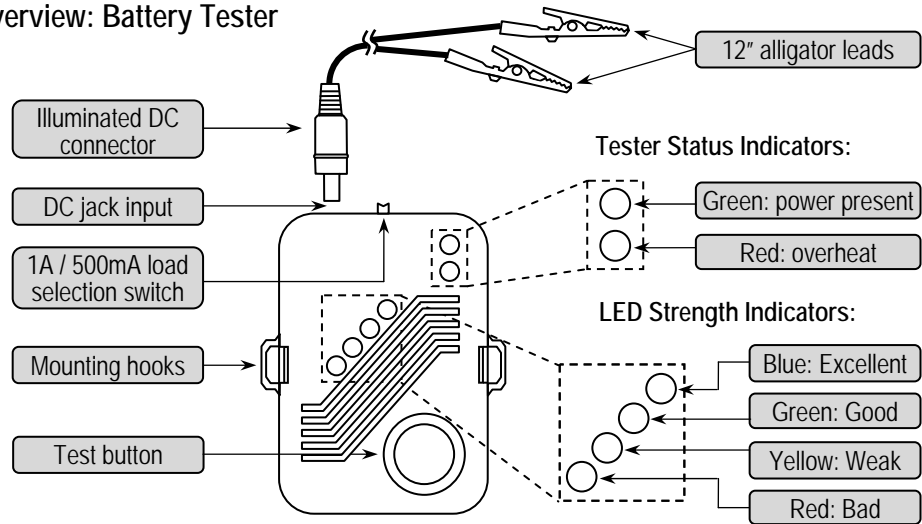


NOTE: Products with a model number that ends with "Q" or have a round green "Q" sticker represent RoHS compliant products.

**Introduction:**

The ENFORCER ST-BT01Q 5-in-1 Battery Tester is a compact unit that performs 5 essential troubleshooting tests in the field. 4 individually lit LEDs show the strength of the voltage present from excellent to poor, while two separate LEDs show the progress of the test. The alligator test leads are designed to be unequal length to prevent them from touching one another during testing.

**Overview: Battery Tester**



**IMPORTANT NOTES:**

1. NEVER CONNECT THE ST-BT01Q TO AC POWER. THIS MAY PERMANENTLY DAMAGE THE BATTERY TESTER AND VOID THE MANUFACTURER'S WARRANTY.
2. Load testing takes no longer than a few seconds. Testing longer may cause the unit to overheat. Significant heat is a normal function of load testing causing an overheat condition.
3. When an overheat condition occurs, the red testing LED indicator will illuminate.
4. When testing multiple loads in quick succession, overheating may occur. Wait 20 ~ 30 seconds between multiple load tests for best results.

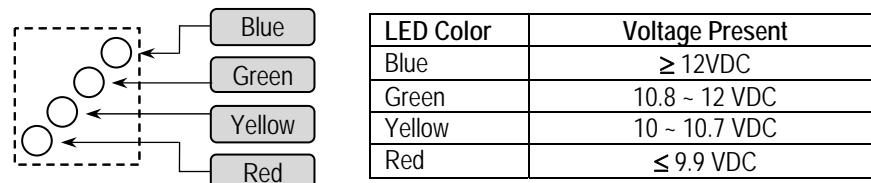
**Specifications:**

Operating voltage	0 ~ 12 VDC
Maximum load	1 Amp
Power	Passive - no power required
Weight	1.4 oz (40g)
Dimensions	2" X 1 3/4" X 1 1/8" (51 X 44 X 29 mm)

**Test #1: Voltage Test**

1. Using the alligator test leads, connect each clip to the wires being tested.
2. The four LEDs (red, orange, green and blue) will show the strength of the voltage present:

Figure 1: LED Strength Indicators



**Test #2: Battery Load Test**

1. Using the alligator test leads, connect each clip to the battery being tested.
2. Using the load selection switch, select the 1A load for testing.
3. Press and hold the test button for 1 ~ 2 seconds.
4. The four LEDs (red, orange, green and blue) will show the strength of the voltage present under the load that has been selected.

**Test #3: Voltage Drop Test**

1. Using the alligator test leads, connect each clip to the wires being tested.
2. Using the load selection switch, select either 1A or 500mA load for testing.
3. Press and hold the test button for 1 ~ 2 seconds.
4. The four LEDs (red, orange, green and blue) will show the strength of the voltage present under the load that has been selected.

**Test #4: PTC Fuse Test**

1. Using the alligator test leads, connect each clip to the fuse being tested.
2. Using the load selection switch, select either 1A or 500mA load for testing.
3. Press and hold the test button for 1 ~ 2 seconds.
4. If the fuse is good, the 4 LEDs will stay illuminated. If the fuse is bad, none of the LEDs will illuminate during the test.

**Test #5: Polarity Test**

1. Using the alligator test leads, connect each clip to the wires being tested.
2. The illuminated connector will show the polarity of the wires being tested as follows:

LED Color	Polarity
No color	No voltage present
Red	Incorrect polarity
Blue	Correct polarity