Contactless Test Switch
Installation, Operation and Maintenance

Made in the
United States of America

Figure 1. EMIT 50756 Contactless Test Switch

Description

The EMIT 50756 Contactless Test Switch is designed to be used with the SmartLog Pro®, Combo Tester X3, and Combo Tester X3 Plus to test operators that wear foot grounders[1] or dual-wire wrist straps[2]. An infrared sensor overrides the test switch on the personnel tester and allows operators to perform tests without touching any parts.

The Contactless Test Switch is compatible with the following items:

Desco	19270	Combo Tester X3
Desco	19271	Combo Tester X3
Desco	19287	Combo Tester X3
Desco	19288	Combo Tester X3
Desco	19265	Combo Tester X3 Plus
EMIT	50774	Combo Tester X3 with Turnstile
EMIT	50775	Combo Tester X3 with Turnstile
EMIT	50779	Combo Tester X3 with Turnstile
EMIT	50780	SmartLog Pro®
EMIT	50781	SmartLog Pro® with Turnstile
EMIT	50782	SmartLog Pro® with Turnstile
EMIT	50721	SmartLog Pro® with Turnstile
EMIT	50722	SmartLog Pro® with Turnstile
EMIT	50723	SmartLog Pro® with Turnstile

Packaging

1 Contactless Test Switch
1 Communication Cable
2 Mounting Screws

Installation

SmartLog Pro® & Combo Tester X3 Plus

1. Mount the Contactless Test Switch next to the tester using its mounting tabs located at the top and bottom.

2. Connect the included communication cable to the jack located at the bottom of the Contactless Test Switch.

3. Connect the other end of the communication cable to the Contactless Test Switch port located on the back of the tester. No power adapter is needed for the Contactless Test Switch. It will draw its power from the tester.
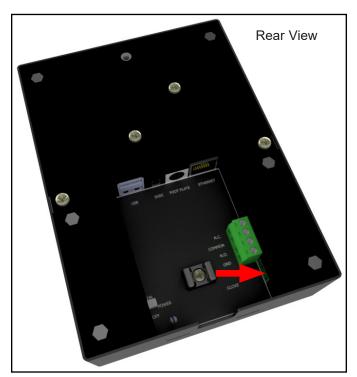

Figure 2. Locating the ESD Glove Test Fixture port on the SmartLog Pro® and Combo Tester X3 Plus

1. *The Contactless Test Switch confirms if both footwear are within the set test limits. Each foot is not measured individually.*
2. *The Contactless Test Switch is compatible with dual-wire wrist straps only.*

Combo Tester X3

1. Mount the Contactless Test Switch next to the Combo Tester X3 using its mounting tabs located at the top and bottom.

2. Connect the included communication cable to the jack located at the bottom of the Contactless Test Switch.

3. Connect the other end of the communication cable to the External Reader port located on the bottom of the Combo Tester X3. No power adapter is needed for the Contactless Test Switch. It will draw its power from the tester.

Bottom View

Figure 3. Locating the External Reader port on the Combo Tester X3

Operation

SmartLog Pro® & Combo Tester X3 Plus

1. A circling light around the test switch indicates when the tester is on standby and ready to perform a test.

2. Initiate the test procedure by identifying yourself to the SmartLog Pro®. This may be done using the touchscreen keypad, barcode scanner or proximity reader.

   NOTE: Hold the proximity badge in front of the RFID icon for a full second if using proximity badges. See Figure 4.

Figure 4. Holding a proximity badge in front of the RFID icon on the SmartLog Pro®

3. Follow the prompt on the tester's display.

4. When performing a footwear test, be sure to place both feet on the dual foot plate (one foot per plate).

   NOTE: Keep the foot plate clean with 99% isopropyl alcohol when using the 1 Gigohm high test limit. A dirty foot plate could yield a false pass.

   When performing a dual-wire wrist strap test, be sure to completely plug in the wrist cord into the tester's jack.

5. Place an object in between the infrared emitter and receiver in the Contactless Test Switch to begin the test. DO NOT touch any other metal while performing your test as this will affect the results. The test results will display on the touchscreen when the test is completed.

Figure 5. Using a proximity badge to trigger the infrared sensor in the Contactless Test Switch to perform a test with the SmartLog Pro®

6. If the ESD test fails, check the wrist strap and both footwear to ensure that they are being worn correctly and/or need to be replaced.

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Figure 6. Using the Contactless Test Switch to perform a footwear test with the SmartLog Pro®

Combo Tester X3

1. A circling light around the test switch indicates when the Combo Tester X3 is on standby and ready to perform a test.

2. When performing a footwear test, be sure to place both feet on the dual foot plate (one foot per plate).

   NOTE: Keep the foot plate clean with 99% isopropyl alcohol when using the 1 Gigohm high test limit. A dirty foot plate could yield a false pass.

   When performing a dual-wire wrist strap test, be sure to completely plug in the wrist cord into the tester's jack.

3. Place an object in between the infrared emitter and receiver in the Contactless Test Switch to begin the test. DO NOT touch any other metal while performing your test as this will affect the results. The results will illuminate on the tester's LEDs.

Figure 7. Using the hand to trigger the infrared sensor in the Contactless Test Switch to perform a test with the Combo Tester X3

4. If the ESD test fails, check the wrist strap and both footwear to ensure that they are being worn correctly and/or need to be replaced.
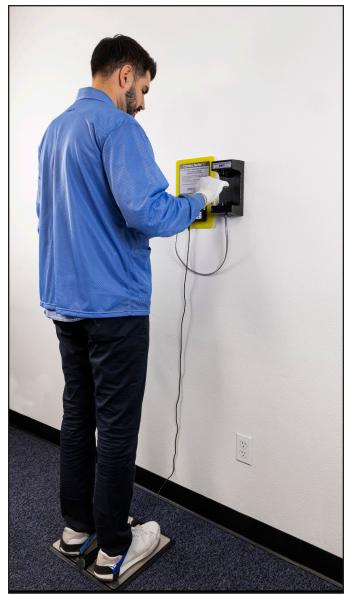
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Figure 8. Using the Contactless Test Switch to perform a footwear test with the Combo Tester X3

Specifications

Operating Voltage	12 VDC
Operating Temperature	41 to 85°F (5 to 30°C)
Environmental Requirements	Indoor use only at altitudes less than 6500 ft. (2 km)
	Maximum relative humidity of 80% up to 85°F (30°C) decreasing linearly to 50% @ 85°F (30°C)
Dimensions	8.3" L x 4.0" W x 3.2" H (210 mm x 102 mm x 81 mm)
Weight	0.9 lbs. (0.4 kg)
Communication Cable Length	2 ft. (610 mm)
Country of Origin	United States of America

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the EMIT Warranty - DescoEMIT.com/Warranty.aspx