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TB-6594 Page 1 of 12 © 2018 DESCO INDUSTRIES, INC. Employee Owned EMIT - 3651 Walnut Avenue, Chino, CA 91710 • (909) 664-9980 • Website: DescoEMIT.com SmartLog Pro® Installation, Operation and Maintenance Description The SmartLog Pro® verifies the functionality of an operator's wrist strap and footwear, logs the test results, and controls access to an ESD Protected Area. The default test limits are set to: Wrist Strap: 750 kilohms to 10 megohms Footwear: 750 kilohms to 35 megohms All operator test activity is logged into a database to meet the ANSI/ESD S20.20 requirements for on-going quality control purposes. Each log entry includes operator identification, test results, resistance measurements, time, temperature and humidity. Operator identification and access control is initiated with the embedded HID OMNIKEY® proximity reader, barcode scanner or touchscreen keypad. Access control to an ESD Protected Area can be further enforced by using the relay terminal on the SmartLog Pro®. It can be connected to an electronic door lock or turnstile to grant access only to those who have passed their pre-defined ESD tests and been given clearance to the area. March 2018 Figure 1. EMIT 50780 SmartLog Pro® The SmartLog Pro® offers three operator identification methods: HID OMNIKEY® proximity reader, barcode scanner and touchscreen keypad. The five-inch color touchscreen provides an intuitive user interface for easy test operation and a clear indication of test results. The operator average test time is 2 seconds. Internal flash memory allows operators to continue using the tester even if network failure were to occur. All test transactions would download to the database once the network connection is restored. The TEAM5 Software can generate automated reports that may be e-mailed to track short term and long term corrective actions. Test limits and test parameters (wrist strap only, footwear only, wrist strap and footwear, etc.) may be customized with the software to meet special requirements. The SmartLog Pro® is calibrated to NIST traceable standards. ESD Association Information "Compliance verification should be performed prior to each use (daily, shift change, etc.). The accumulation of insulative materials may increase the foot grounder system resistance. If foot grounders are worn outside the ESD protected area testing for functionality before reentry to the ESD protected area should be considered." ESD SP9.2 APPENDIX B - Foot Grounder Usage Guidance "Process monitoring (measurements) shall be conducted in accordance with a Compliance Verification Plan that identifies the technical requirements to be verified, the measurements limits and the frequency at which those verifications shall occur... Compliance verification records shall be established and maintained to provide evidence of conformity to the technical requirements. The test equipment selected shall be capable of making the measurements defined in the Compliance Verification Plan." (ANSI/ESD S20.20) section 7.3 ANSI/ESD S20.20 Table 1 Flooring-Footwear Systems Technical Requirements Recommended Range "less than 3.5 x 10⁷ ohms measured per ANSI/ESD STM 97.1." "Typical test programs recommend that wrist straps that are used daily should be tested daily. However, if the products that are being produced are of such value that knowledge of a continuous, reliable ground is needed, and then continuous monitoring should be considered or even required." (ESD Handbook ESD TR 20.20 section 5.3.2.4.4) Note: SmartLog Pro® provides wrist strap test per IEC 61340-5-1 Clause A.1 and footwear testing per IEC 61340-5-1 Clause A.2 with upper limits < 3.5 x 10⁷ohms. TECHNICAL BULLETIN TB-6594 Made in the United States of America

Chino, CA Other Features 20,000 face capacity 5.5" touchscreen display Tamper alarm Turnstile mounting kit included Specifications Input Voltage and Frequency (External Adapter): AC/DC Power Adapter Power Input: 100-240VAC, 50/60 Hz Power Output: 12 VDC, 2 A Cable Length: 8 ft. (2.4 m) total Operating Temperature: 50 to 158° F (10 to 70° C) Environmental Requirements: Indoor use only at altitudes less than 6500 ft. (2 km) 10-90% RH Dimensions: 9.1" x 3.5" x 1.0" (232 mm x 88 mm x 25 mm) Weight: 1.1 lbs. (0.5 kg) Face Capacity: 20,000 Available Detections: Liveness, Body Temperature, Mask Available Languages: English, Spanish, Japanese, Chinese (Simplified & Traditional), French, Russian, Portuguese, Italian, Korean, Thai, Arab, Vietnamese Country of Origin: China TECHNICAL BULLETIN TB-6594 SmartLog Pro® Installation, Operation and Maintenance Figure 1. EMIT 50780 SmartLog Pro® Description The SmartLog Pro® verifies the functionality of an operator's wrist strap and footwear, logs the test results, and controls access to an ESD Protected Area. The default test limits are set to: Wrist Strap: 750 kilohms to 10 megohms Footwear: 750 kilohms to 35 megohms All operator test activity is logged into a database to meet the ANSI/ESD S20.20 requirements for on-going quality control purposes. Each log entry includes operator identification, test results, resistance measurements, time, temperature and humidity. Operator identification and access control is initiated with the embedded HID OMNIKEY® proximity reader, barcode scanner or touchscreen keypad. Access control to an ESD Protected Area can be further enforced by using the relay terminal on the SmartLog Pro®. It can be connected to an electronic door lock or turnstile to grant access only to those who have passed their pre-defined ESD tests and been given clearance to the area. TB-6594 Page 1 of 12 March 2018 EMIT - 3651 Walnut Avenue, Chino, CA 91710 • (909) 664-9980 • Website: The SmartLog Pro® offers three operator identification methods: HID OMNIKEY® proximity reader, barcode scanner and touchscreen keypad. The five-inch color touchscreen provides an intuitive user interface for easy test operation and a clear indication of test results. The operator average test time is 2 seconds. Internal flash memory allows operators to continue using the tester even if network failure were to occur. All test transactions would download to the database once the network connection is restored. The TEAM5 Software can generate automated reports that may be e-mailed to track short term and long term corrective actions. Test limits and test parameters (wrist strap only, footwear only, wrist strap and footwear, etc.) may be customized with the software to meet special requirements. The SmartLog Pro® is calibrated to NIST traceable standards. ESD Association Information "Compliance verification should be performed prior to each use (daily, shift change, etc.). The accumulation of insulative materials may increase the foot grounder system resistance. If foot grounders are worn outside the ESD protected area testing for functionality before reentry to the ESD protected area should be considered." ESD SP9.2 APPENDIX B - Foot Grounder Usage Guidance "Process monitoring (measurements) shall be conducted in accordance with a Compliance Verification Plan that identifies the technical requirements to be verified, the measurements limits and the frequency at which those verifications shall occur... Compliance verification records shall be established and maintained to provide evidence of conformity to the technical requirements. The test equipment selected shall be capable of making the measurements defined in the Compliance Verification Plan." (ANSI/ESD S20.20) section 7.3 ANSI/ESD S20.20 Table 1 Flooring-Footwear Systems Technical Requirements Recommended Range "less than 3.5 x 10⁷ ohms measured per ANSI/ESD STM 97.1." "Typical test programs recommend that wrist straps that are used daily should be tested daily. However, if the products that are being produced are of such value that knowledge of a continuous, reliable ground is needed, and then continuous monitoring should be considered or even required." (ESD Handbook ESD TR 20.20 section 5.3.2.4.4) Note: SmartLog Pro® provides wrist strap test per IEC 61340-5-1 Clause A.1 and footwear testing per IEC 61340-5-1 Clause A.2 with upper limits < 3.5 x 10⁷ ohms. DescoEMIT.com Made in the United States of America

7 © 2018 DESCO INDUSTRIES, INC. Employee Owned TECHNICAL BULLETIN TB-6594 SmartLog Pro™ Installation, Operation and Maintenance Figure 1. EMIT 50780 SmartLog Pro™ Description The patented EMIT 50780 SmartLog Pro™ system is designed for fast, frequent, and accurate testing of ESD personnel grounding items. Its unique design embeds an ESD tester, computer, touchscreen display, proximity badge reader and barcode scanner into a compact metal enclosure. By touching the solid-state switch once, the SmartLog Pro™ independently tests the resistance path limits of the worn wrist strap and both worn ESD footwear in less than 2 seconds. It may also test a worn ESD garment if it is used as part of personnel grounding path. Test results are electronically stored in the SmartLog Pro™ and easily downloaded to a PC for logging records and evaluation. This product can be used as one of the tools to fulfill the ANSI/ESD S20.20 section 7.3 "Compliance Verification Plan." Paperless data can enhance operator accountability, immediately identifying problems while reducing logging and auditing costs. There is no need to dedicate a computer for each test station. The SmartLog Pro™ is a complete system including all required components. Operator identification can be accomplished using the touchscreen keypad, scanning a barcode badge or waving a proximity badge (verify compatibility with the factory). TB-6594 Page 1 of 12 May 2016 The SmartLog Pro™ can test either single or dual-wire wrist straps and its split footplate design provides individual footwear testing all in a single test. With the use of TEAM5 Software, the SmartLog Pro™ can be programmed to assign unique test requirements to personnel. An individual can be required to test either wrist strap only, footwear only or a combination of the two. If a resistance path is below or exceeds the set limits, the SmartLog Pro™ will indicate failure via audio and visual alarms. Use the included relay terminal to promote access control for passed tests. The SmartLog Pro™ can also be networked to a company's Intranet using its embedded Ethernet module. The SmartLog Pro™ is calibrated to NIST traceable standards. ESD Association Information "Compliance verification should be performed prior to each use (daily, shift change, etc.). The accumulation of insulative materials may increase the foot grounder system resistance. If foot grounders are worn outside the ESD protected area testing for functionality before reentry to the ESD protected area should be considered." ESD SP9.2 APPENDIX B - Foot Grounder Usage Guidance "Process monitoring (measurements) shall be conducted in accordance with a Compliance Verification Plan that identifies the technical requirements to be verified, the measurements limits and the frequency at which those verifications shall occur... Compliance verification records shall be established and maintained to provide evidence of conformity to the technical requirements. The test equipment selected shall be capable of making the measurements defined in the Compliance Verification Plan." (ANSI/ESD S20.20) section 7.3 ANSI/ESD S20.20 Table 1 Flooring-Footwear Systems Technical Requirements Recommended Range "less than 3.5 x 10⁷ ohms measured per ANSI/ESD STM 97.1." "Typical test programs recommend that wrist straps that are used daily should be tested daily. However, if the products that are being produced are of such value that knowledge of a continuous, reliable ground is needed, and then continuous monitoring should be considered or even required." (ESD Handbook ESD TR 20.20 section 5.3.2.4.4) Note: SmartLog Pro™ provides wrist strap test per IEC 61340-5-1 Clause A.1 and footwear testing per IEC 61340-5-1 Clause A.2 with upper limits < 3.5 x 10⁷ ohms. *US Patents 6,078,875 and 6,809,522 Made in the United States of America 7 © 2016 DESCO INDUSTRIES, INC. Employee Owned

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