

Turnstile for SmartLog Pro® 2 Installation, Operation, and Maintenance



Made in the
United States of America



Figure 1. Alvarado EDC Turnstile for SmartLog Pro® 2

Description

When paired with the [EMIT SmartLog Pro® 2](#), the [Alvarado EDC Waist High Turnstile](#) controls access to the ESD Protected Area to operators that have passed their pre-defined ESD tests and have been granted access to the area. The Alvarado EDC turnstile is made of high-quality stainless steel and investment cast components. Designed to provide years of trouble-free operation, the turnstile rotates smoothly and self-centers when returning to the home position. The cabinet is manufactured without visible bolts or fasteners which provides a clean and industrial look. Should loss of power occur, the turnstile's arms will unlock and rotate freely in both directions to allow operators to pass through.

Alvarado EDC Key Features:

- Stainless steel and investment cast internal components
- Smooth turnstile arm rotation with automatic self-centering
- Field configurable for single direction or bi-directional operation
- Hidden anchoring – no exposed bolts or fasteners
- Made in the United States of America

Added Benefits:

- Designed for long term continuous use
- Single passage control
- Easy to install and maintain
- Hinged lid and interior panels provide easy service and installation access



SmartLog Pro® Manager Web App

SmartLog Pro® Manager automates the collection of ESD personnel grounding tests and maintains records for a Compliance Verification Plan as required by ANSI/ESD S20.20. It includes functions for tracking employee leave time, shift and department assignments, and ESD training accreditation. SmartLog Pro® Manager generates 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 web app to meet special requirements.

SmartLog Pro® Manager is only compatible with the SmartLog Pro® SE and SmartLog Pro® 2 models. It is required for every SmartLog Pro® 2 system installation. Contact EMIT Customer Service to schedule an installation session.

See technical bulletin [TB-6605](#) for more information.

ESD Association Information

For more information on ESD Control Plan requirements, please visit the ESD Association website at esda.org.

Packaging

- 1 Turnstile
- 2 Slanted Standoffs
- 1 Socket Head Cap Screw, 10-32 x 1-1/4"
- 1 Internal Tooth Lock Washer
- 1 Allen Wrench, 5/32"
- 1 Turnstile Anchor Kit
- 8 Turnstile Keys

Installation

Installing the Alvarado EDC Turnstile

Appropriate line voltage and network access (wired or wireless) are needed at the location of every SmartLog Pro® 2 with Turnstile prior to installation. [Click here](#) to download the Alvarado EDC Installation and Maintenance Manual and see instructions on anchoring and wiring the turnstile. Do not install the SmartLog Pro® 2 until the turnstile is properly anchored and wired.

Installing the SmartLog Pro® 2 to the Alvarado EDC Turnstile

See [TB-6610](#) to learn more about the features and components of the SmartLog Pro® 2.

1. Open the turnstile's lid using the included keys.
 2. Install the SmartLog Pro® onto the turnstile's lid using the 2 slanted standoffs, 1 socket head cap screw, and 1 lock washer. See Figure 2.
- NOTE: This mounting hardware kit is also sold separately as EMIT item 50189. It may be used to mount the SmartLog Pro® 2 onto other turnstile models. See Figure 9 for the necessary turnstile lid fabrications for mounting the SmartLog Pro® 2.
3. Connect the terminal block, foot plate cable, power adapter, and Ethernet cable (optional) to the back of the SmartLog Pro®.
 4. Locate the power switch inside the turnstile cabinet, and set it to ON. This will power both the turnstile and SmartLog Pro®.
 5. Locate the foot plate cable at the base of the turnstile and connect it to the dual foot plate. Position it so operators can place their feet on it while performing tests at the turnstile's entrance.
 6. Complete the installation by establishing network communication to the SmartLog Pro®.

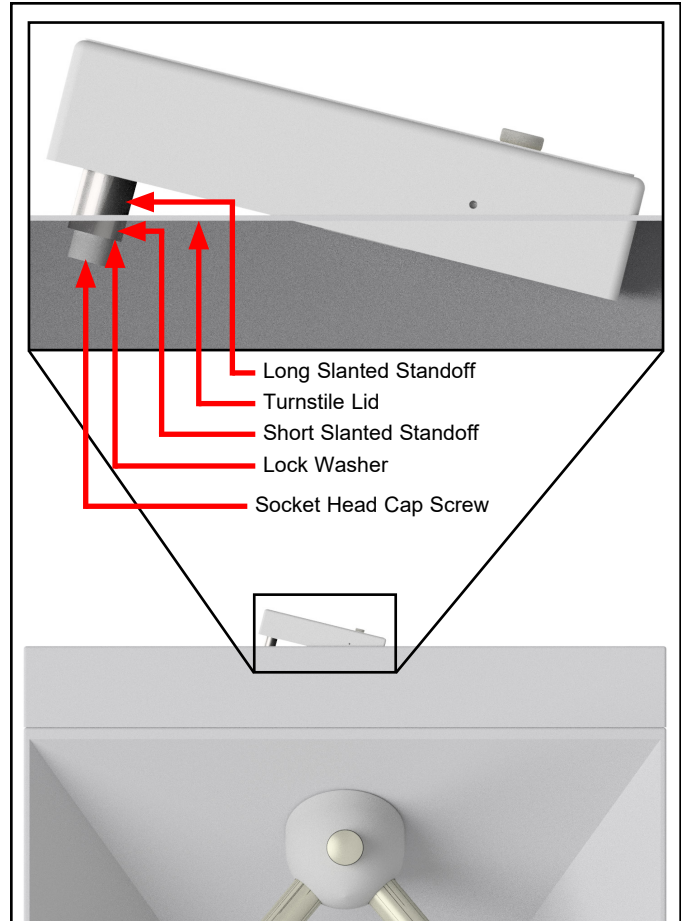


Figure 2. Installing the SmartLog Pro® 2 onto the turnstile's lid



Figure 3. Completing the installation

Operation

NOTE: The SmartLog Pro® must first be programmed with the user ID table using the SmartLog Pro® Manager Web App before being deployed for employee use, or the default test settings will be applied.

See technical bulletin [TB-6605](#) for more information.

If the SmartLog Pro® is located near a restroom, sink or other water source, operators should be instructed to thoroughly dry their hands before testing. Wet hands may cause inaccurate test results and damage to the tester.

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

2. Initiate the test procedure by entering a test ID number into the SmartLog. This may be done using the touchscreen keypad or proximity reader.

NOTE: Hold the proximity card in front of the RFID icon for a full second if using proximity cards.

3. Follow the prompt on the SmartLog'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 wrist strap* test, be sure to completely plug in the wrist cord into the tester's jack.

5. To begin the test, use a finger to bridge the test switch's inner and outer contacts. The blue standby LED will become solid to indicate that the test has been initiated. Hold the finger down until the test results are displayed on the touchscreen.

If the finger is removed too early, the tester's blue LEDs will blink three times to indicate that the test was not completed. DO NOT touch any other metal while performing the test as this will affect the results.

6. The relay terminal will activate and unlock the turnstile if the defined tests are passed.

NOTE: Failures may be caused by dry skin or minimal sweat layer. For wrist straps, try using an approved dissipative hand lotion such as [Menda Reztore® ESD Hand Lotion](#) prior to use. Footwear test results can be improved by taking a short walk to build a sweat layer for better conductivity.

7. Pass through the turnstile. The turnstile will re-lock after one rotation.

NOTE: By default, the turnstile will remain unlocked until either the operator passes through or 20 seconds expire. See the "Turnstile Control Board Layout" section in the [Alvarado EDC Installation and Maintenance Manual](#) for instructions on modifying the turnstile's relock setting.

*The SmartLog Pro® 2 may also be used to test smocks or garments that feature a grounding mechanism for operators using a coiled cord connection.



Figure 4. Holding a proximity badge in front of the RFID icon on the SmartLog Pro® 2

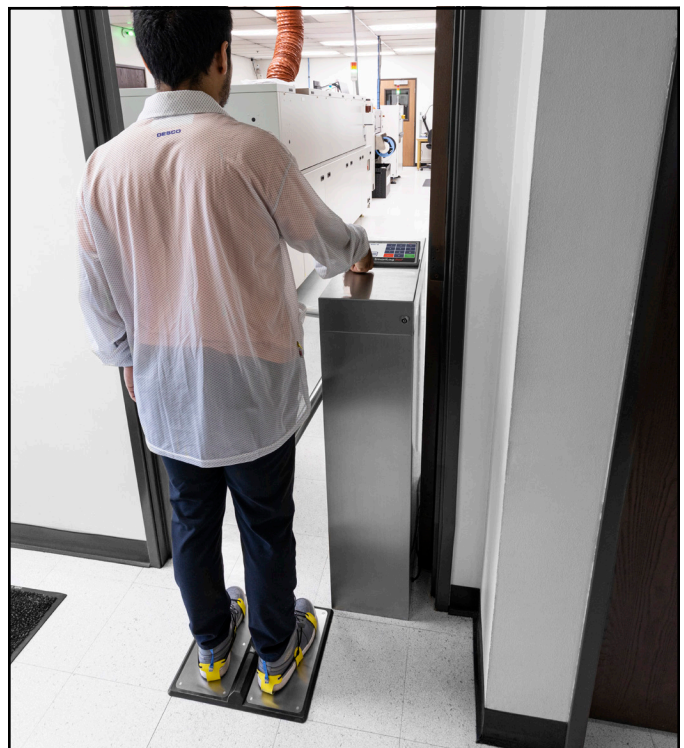


Figure 5. Performing a footwear test



Figure 6. Performing a wrist strap test

Loss-of-Power Turnstile Operation

Upon loss-of-power or fire system input, the turnstile's arms will unlock and rotate freely in both directions to allow operators to pass through. Upon restoration-of-power or removal of the fire system input, the arms will re-lock after completing one rotation.

50177 Facial Recognition Terminal

The EMIT 50177 Facial Recognition Terminal is designed to be used with the SmartLog Pro® 2 to test operators that wear foot grounders or wrist straps. The biometric reader uses facial features to identify the operator and can be set to limit access based on the operator's temperature or if the operator is wearing a mask. Verified scans override the test switch on the personnel tester and allow operators to perform tests without contact. All EMIT turnstiles are constructed with a mounting cutout for the 50177 Facial Recognition Terminal.



Figure 7. EMIT 50177 Facial Recognition Terminal paired with the 50182 Turnstile and SmartLog Pro® 2

Specifications

Input Voltage and Frequency	110 VAC, 50/60 Hz
Power Consumption	65 W
Dimensions (Crated)	44" x 50" x 60" (112 cm x 127 cm x 152 cm)
Dimensions (Uncrated)	See Figure 11
Weight (Crated)	400 lbs (181 kg)
Weight (Uncrated)	285 lbs (129 kg)
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

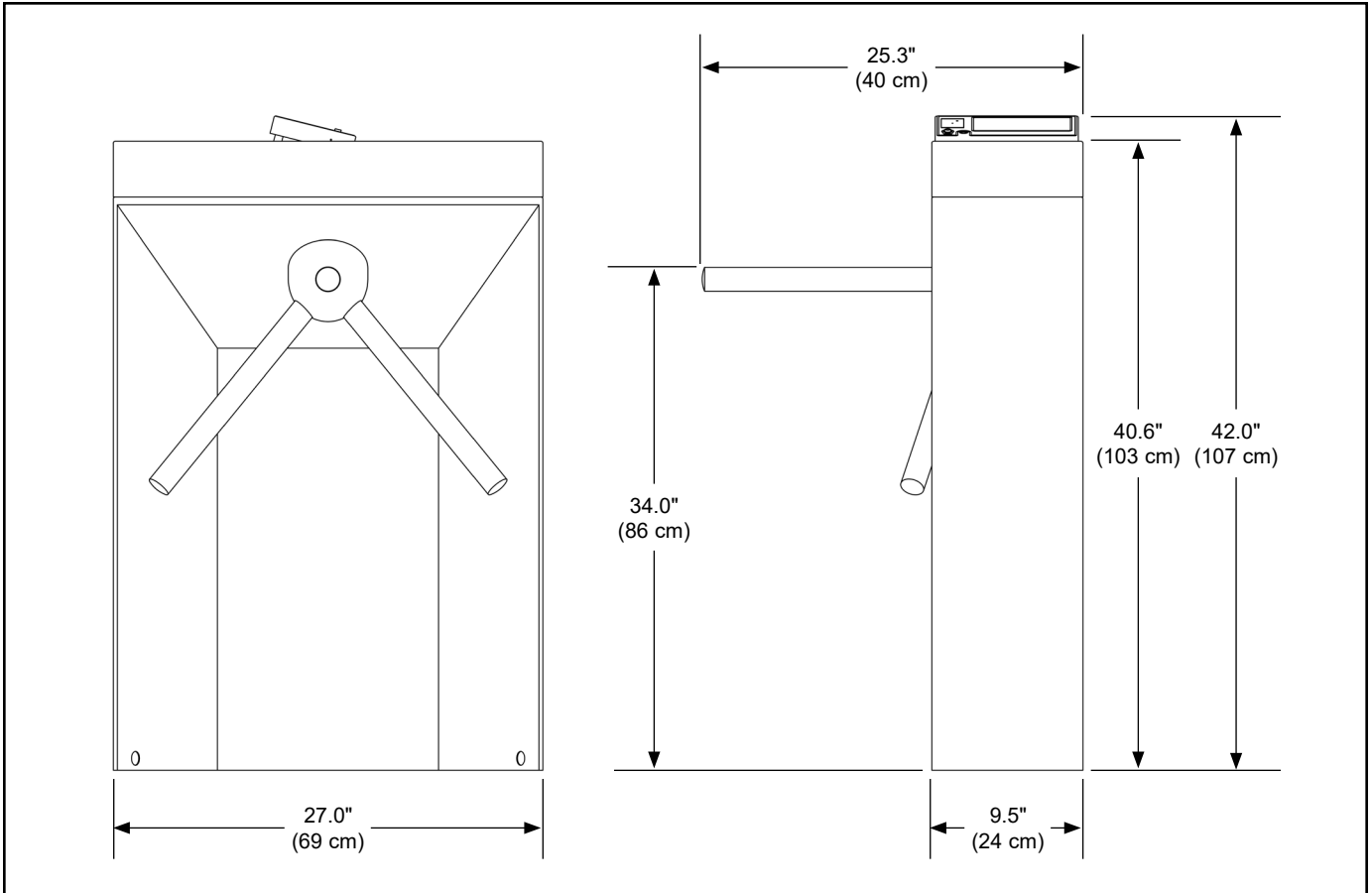


Figure 8. Dimensions of the SmartLog Pro® 2 with Turnstile

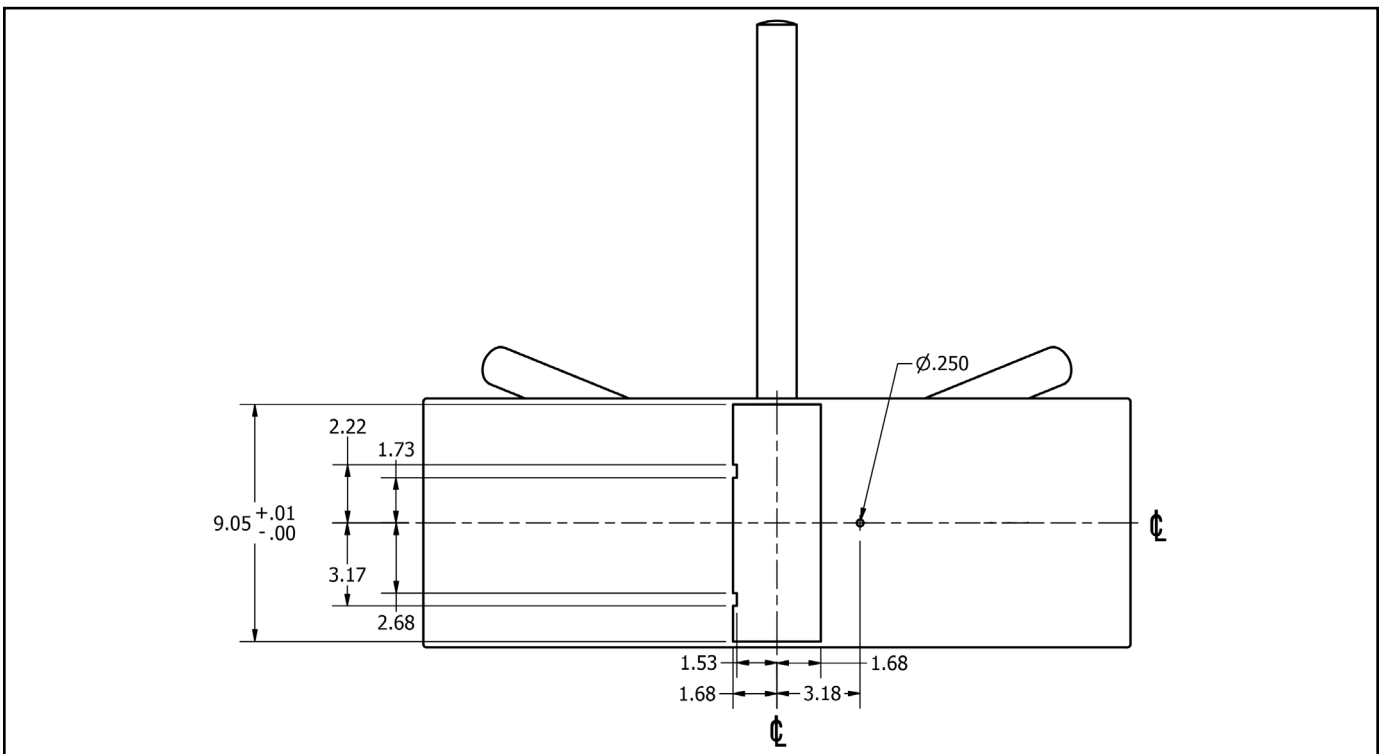


Figure 9. Turnstile lid cutout dimensions for mounting the SmartLog Pro® 2 using the 50189 Turnstile Mounting Kit (all dimensions are in inches)