ALVARADO

protecting assets and controlling the flow of people

model

TAS12-EDC

DESCRIPTIVE SPECIFICATIONS



The TAS12-EDC intelligent admission turnstile is an electric lock controlled turnstile integrated with a 1D/2D barcode scanner, color TFT display with touchscreen and an advanced controller that communicates with Alvarado server applications via wired or wireless TCP/IP. It is used for patron self-validation entry applications.

COMMON APPLICATIONS

- Front Gate Entry Control
- Patron Self-Validation

TYPICAL INSTALLATION SITES

- Stadiums & Arenas
- Zoos & Aquariums
- Theme Parks

FUNCTION

The TAS12-EDC is an intelligent admission turnstile used to validate barcoded credentials. The device is typically used to provide controlled entry at general admission and reserved seat facilities, but it is also suitable for other access control applications.

The TAS12-EDC can be used indoors, or outdoors in a covered environment. Patrons present barcode credentials to the device. After receiving a response from the Alvarado gate admission software, the status of the presented credential is communicated to the patron through user-defined screen graphics and audio sounds. Entry control is provided by the integrated locking/unlocking turnstile.

The TAS12-EDC operates in conjunction with one of Alvarado's two server based admission control software applications.

GateLink 10 - A complete entertainment facility admission control application, suitable for use at stadiums, arenas and entertainment venues such as zoos and theme parks. GateLink is installed in 100's of venues around the world and has been used to validate nearly one billion tickets.

GateConnect - A "middleware" application that allows a third-party access control system to receive and send data to/from Alvarado intelligent admission devices.

AVAILABLE CONFIGURATIONS

TAS12-EDC

- **TAS12**
  - Advanced controller
  - Internal 1D/2D barcode scanner
  - Color TFT display with touchscreen
  - Rear-facing attendant notification lights
  - Internal speaker with custom audio
  - Wired TCP/IP communication
- **Alvarado EDCX Turnstile**

TAS12P-EDC

- **TAS12**
  - Advanced controller
  - Internal 1D/2D barcode scanner
  - Color TFT display with touchscreen
  - Rear-facing attendant notification lights
  - Internal speaker with custom audio
  - Wired TCP/IP communication
  - Integrated magnetic stripe reader
  - Built-in thermal printer
- **Alvarado EDCX Turnstile**

Main Options for Both Configurations (see Options page)

- **Alternate media readers (magnetic stripe, NFC, RFID, fingerprint etc)**
- **Additional TAS12-OEM for entry/exit control or attendant use**
- **Wireless communication (Wi-Fi)**
- **Portable, battery powered**
- **Portable, AC powered**
- **Drop Arm**

TAS12-EDC COMPONENTS & FUNCTIONALITY

BARCODE SCANNER

A 1D/2D barcode scanner is internally-mounted within the TAS12-EDC. The scanner reads both printed and digital barcodes. Alternate media readers, such as magnetic stripe, NFC, RFID or fingerprint, can be integrated (see Options).

TFT DISPLAY WITH TOUCHSCREEN

A 5.7" (diagonal) touchscreen color display is protected by a powdercoated, die cast bezel. The bright display (700 nit) is visible in sunlight and has an 85°C temperature rating. User definable graphics notify patrons of credential status. Advertisements can also be displayed. Graphics are easily changed using an Alvarado server utility.

ATTENDANT NOTIFICATION LIGHTS

Bright LED notification lights are flush mounted in the back of the TAS12-EDC. They are user configurable and typically set to function in the following manner:

Yellow - An illuminated yellow LED indicates that a flagged credential has been validated, such as a child ticket.

Green - An illuminated green LED indicates that a valid credential has been presented.

Red - An illuminated red LED indicates that an invalid credential has been presented.

Red (flashing) - A flashing red LED indicates a network communication error (offline).



INTERNAL SPEAKER WITH CUSTOM AUDIO

Audible sounds (.wav files) are user configurable and are uploaded to one or all devices from Alvarado server utilities. Sounds are typically used to notify patrons and attendants of presented credential status, or error conditions.

TURNSTILE FEATURES & FUNCTIONALITY

ELECTRIC LOCK CONTROL

Digital lock/unlock control.

HYDRAULIC DAMPENING & SELF-CENTERING MECHANISM

Provides a smooth braking effect during the rotation of the turnstile to eliminate "rumpslap" as well as over rotation of the turnstile arm. The hydraulic dampening tension is adjustable.

OPTO-INTERRUPTOR DETECTION ASSEMBLY

Rotation of the turnstile arm is detected by an internal non-contact opto-interruptor assembly. No mechanical microswitches are used in the operation of the turnstile.

ADJUSTABLE TIMED DELAY AUTO RE-LOCK

The amount of time a user is allowed to pass through the turnstile before it automatically re-locks is adjustable.

OPERATION & INTERFACE

OPERATING MODE

The TAS12-EDC is generally used in the following operational mode:

Patron Self-Validation – Patrons present bar code credentials to the device. The presented credential is validated and instructions to the patron are provided through user definable graphics and sounds. Lights in the rear of the device provide notification to an attendant of the status of the presented credential.

Attendant Assistance – The touchscreen can be used by an attendant for various functions such as log-in, entry override, media lookup or manual credential input. Custom touchscreen functionality, for either patrons or attendants, can be developed by Alvarado.



Screen prompts can be customized by the venue.

INTERFACE TO SERVER APPLICATIONS

The TAS12-EDC's advanced controller communicates in real-time with Alvarado server-based admission software, either GateLink10 or GateConnect. Communication to Alvarado server applications is via wired or wireless TCP/IP (see Options).

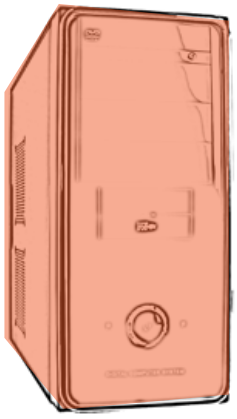
ON-SCREEN DIAGNOSTIC TOOLS

On-screen diagnostics are provided to test product functionality.

TYPICAL CONFIGURATION

Alvarado Admission Software

Ticketing System



Real-time Data Exchange
& Reporting







Credential Validation

Barcode
Magnetic Stripe*
RFID*
Fingerprint*
NFC*

*Optional

MAIN OPTIONS

ALTERNATE MEDIA READERS
Additional devices, such as magnetic stripe, NFC, RFID or fingerprint readers, may be utilized. Additional readers are typically integrated underneath the turnstile lid. Contact Alvarado for information.

ADDITIONAL TAS12-OEM
A second TAS12 is added for attendant use or to implement entry/exit validation applications.

WIRELESS COMMUNICATION
A water-resistant, wireless antenna provides communication to the facility wireless network. Wireless communication is 802.11b-g.

BATTERY POWERED PORTABLE
The turnstile is mounted to a black powder coated baseplate with stainless steel guide rail. An internally-mounted, rechargeable battery provides power. A rear AC plug is provided for charging the units when not in use. Wireless communication only.

AC POWERED PORTABLE
The turnstile is mounted to a black powder coated baseplate with a stainless steel guide rail. A rear AC plug is provided to power the turnstile. Wireless communication only.

DROP ARM
The horizontal turnstile arm drops down to provide a clear passageway. The mechanism is electro-mechanical. The arm drops on loss of power, on receipt of a fire alarm input, or upon receipt of a signal over the network from GateLink10.

LOCAL COUNTER
A lithium battery powered LCD counter is installed in the turnstile. Each rotation of the turnstile generates a count. One counter is required per direction of travel. Counters can be reset to “0” using a provided key.

FINISHES
Cabinets can be powder coated in a variety of colors. Stainless steel also available.

ALTERNATE POWER SUPPLY
A 220-240 VAC, 50 Hz power supply is utilized.

VINYL COVERS
Vinyl covers are available to protect units when not in use. Highly recommended.



A fingerprint scanner integrated on the lid of a TAS12-EDC.


Battery powered portable, wireless.


Additional TAS12-OEM added.

MATERIALS & FINISHES

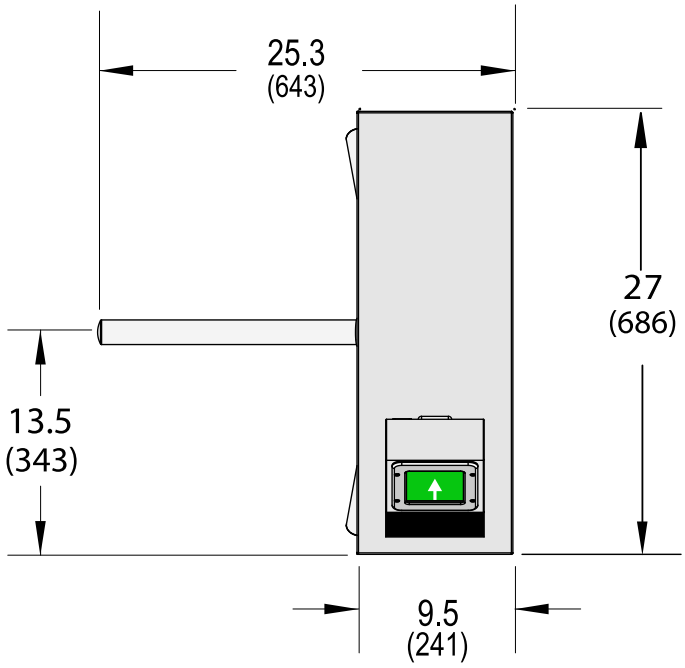
TAS12

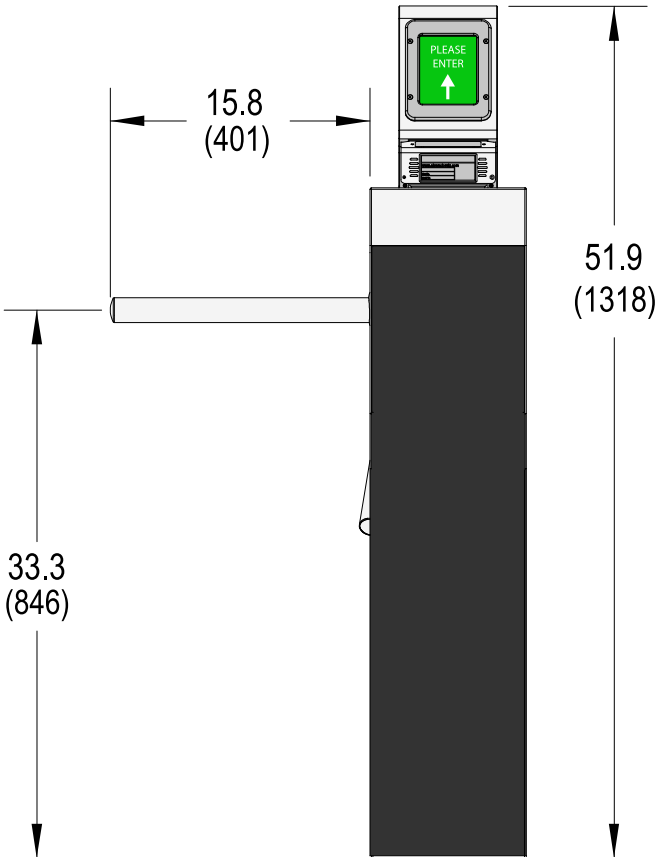
The outer skin of the TAS12 is fabricated from stainless steel polished to a #4 satin finish. The touchscreen frame is die cast aluminum with a gray powder coat finish.

EDCX TURNSTILE

The turnstile cabinet is fabricated from steel with a black powder coat finish. Powder coating is available in a variety of colors. Stainless Steel is also available. The lid and rotating arms are stainless steel polished to a #4 satin finish.

TECHNICAL DIMENSIONS





Dimensions are shown in inches (mm)

ELECTRICAL - TAS12-EDC		
	DESCRIPTION	
POWER SUPPLY	110-120VAC, 60 Hz or 220-240VAC, 50 Hz (optional)	
POWER REQUIREMENTS	Maximum power consumption is 90W per unit.	
OPERATIONAL VOLTAGE	Primary power is stepped down and rectified for low voltage, 12VDC and 5VDC operation.	
ON/OFF SWITCH	A recessed on/off button is located on the exit side of the turnstile lid.	
SURGE PROTECTION	Alvarado suggests use of surge protection equipment in connection with the installation to protect electronics.	
WEIGHT, DIMENSIONS, ENVIRONMENT		
	US STANDARD	METRIC
PRODUCT WEIGHT	135 lbs.	62 kg
SHIPPING WEIGHT*	185 lbs.	84 kg *Includes weight of shipping crate.
HEIGHT	51.9”	1318mm
WIDTH**	25.3”	643mm **Includes length of arm.
DEPTH	27”	686mm
OPERATING TEMPERATURE***	15° to 122° F	-10 to 50° C

*** TAS12-EDC units are engineered to operate in an outdoor, covered, environment.

SHIPPING & SITE PREPARATION

SHIPPING

The TAS12-EDC is shipped as two subassemblies. All assembly hardware is included.

SITE PREPARATION

Turnstiles must be installed on a firm foundation in a manner that allows the required power and data cabling to be pulled into the unit. The recommended slab platform should be 4” deep, level concrete. Concrete anchors, bolts and washers are included with each turnstile.

INSTALLATION

Installation should be performed by a skilled installer following Alvarado’s instructions. Detailed drawings and installation manuals are available.

WARRANTY

For a period of one year from the date of purchase, Alvarado will replace or repair, at Alvarado’s option, any products or parts which are defective in materials or workmanship, provided recommended installation and maintenance procedures are followed. This warranty is void if damage is due to improper installation, maintenance or use. This warranty is limited to parts only, and does not cover labor or shipping charges incurred in connection with the removal or replacement of warranted products or parts.

This warranty is expressly made in lieu of any and all other warranties, expressed or implied, including, but not limited to implied warranties of merchantability and fitness for a particular purpose. Alvarado shall not be liable for any loss or damage, directly or indirectly, arising from the use of purchased products. In no event shall Alvarado be liable to buyer for consequential damages, special damages, incidental damages, loss of use, business interruption, loss of profits, or damages of any kind arising out of the use or inability to use a purchased product. In no event shall Alvarado be liable for damages which exceed the purchase price of a covered product.