Dual TAS12-EDC / Dual TAS12P-EDC

Intelligent Admission Turnstiles

The Dual TAS12-EDC and Dual TAS12P-EDC are two of Alvarado's intelligent turnstile models that provide access control at entertainment and leisure facilities. Both models allow patrons to self-validate entry credentials in both the entry and exit direction. The Dual TAS12P-EDC includes an integrated high-speed kiosk printer (in the entry direction) that can print tickets, seat locator slips or receipts right at the gate.



TYPICAL INSTALLATION SITES

- Stadiums
- Arenas
- Theme Parks
- Other Leisure Facilities

COMMON APPLICATIONS

- Entertainment Facility Access Control
- Entry/Exit Entertainment Facility Access Control
- Printing During the Entry Process

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FUNCTION

Alvarado offers six intelligent admission turnstile models that provide entry control in select types of admission applications.

Our intelligent turnstiles are reliable, provide high throughput and are easy for guests and attendants to use. The product design of our equipment is modular, providing an upgrade path for facilities as technology requirements and needs change.

There are two ways to integrate to Alvarado's intelligent turnstiles. First, like all of Alvarado's intelligent admission devices, our TAS12 series models integrate seamlessly with Alvarado's powerful entertainment facility access control software, GateLink10. Venues or customers with an existing (non-Alvarado) access control system may also integrate directly with Alvarado's *DirectConnect API*.

MODELS

DUAL TAS12-EDC

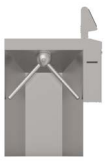
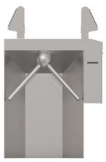
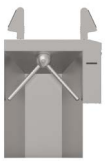
The Dual TAS12-EDC comes with two intelligent controllers, two independent color touchscreen displays and two 1D/2D barcode imagers that quickly scan printed, digital and wristband barcodes. Other media readers such as RFID/NFC and magnetic stripe can be added.

DUAL TAS12P-EDC

The Dual TAS12P-EDC has all the same features as the Dual TAS12-EDC, plus an integrated high-speed kiosk style printer in the entry direction.

OTHER AVAILABLE MODELS

Alvarado offers six TAS12 turnstile models:

	EDC	Dual EDC	P-EDC	Dual P-EDC	AA-EDC	PAA-EDC
						
Guest Facing Display for Entry	✓	✓	✓	✓	✓	✓
Second Guest Facing Display for Exit	⊕	✓	⊕	✓	✓	✓
Guest Facing Display and Attendant Facing Display	⊕	⊕	⊕	⊕	✓	✓
Integrated High-Speed Printer	–	–	✓	✓	–	✓

✓ Included ⊕ Factory prepped for future upgrade – Cannot be upgraded

Additional information about other models can be found on our website, in our Sports and Entertainment Access Control Solutions Catalog and in other Descriptive Specifications.

SCAN HEAD COMPONENTS

There are two scan head assemblies per turnstile. Each scan head assembly is a #304 stainless steel housing containing the components listed below. The scan head assembly attaches securely to the lid of the turnstile. Included components are:

ACCESS CONTROLLER

The access controller communicates either to Alvarado's GateLink10 access control software or to 3rd party access control software through Alvarado's *DirectConnect API*, via wired or wireless TCP/IP. The access controller also controls turnstile functionality and provides offline validation if communication to the access control server is not possible. Offline transactions are stored and automatically uploaded to the host when communication is restored.

BARCODE SCANNER

A 1D/2D barcode scanner is internally mounted. The scanner quickly reads both printed and digital barcodes.

TFT DISPLAY WITH TOUCHSCREEN

A powder coated diecast bezel frames a 5.7" (diagonal) touchscreen color display. The bright (700 nit) display is visible in bright sunlight. User definable graphics guide patrons through the validation process and provide notification of presented credential status. Advertisements can also be displayed on the screen. Graphics are easily changed using an Alvarado provided utility.

ATTENDANT NOTIFICATION LIGHTS

The back of the assembly contains an LED light board (Yellow/Green/Red). Lights notify attendants of the status of the presented credential. Unique light combinations can be associated with select ticket types to provide notification to attendants of special tickets such as "child", "senior" or "VIP".

INTERNAL SPEAKER

Audible sounds (.wav files) are typically used to notify patrons and attendants of the validity of the presented credentials. Sounds are user configurable and are uploaded to one or all devices from a server utility.

TURNSTILE COMPONENTS

CABINET

The cabinet is fabricated from 14-gauge stainless steel. The cabinet contains the internal turnstile mechanism, turnstile controller and waterproof low voltage power supply. Two internal mounting tubes inside the cabinet allow the turnstile to be installed without the use of visible anchors, bolts or fasteners.

LID

The lid is fabricated from 16-gauge stainless steel. The lid attaches to the cabinet with hinge assemblies and is secured with two cam locks.

ROTATING HEAD AND ARMS

The rotating head is fabricated from a solid piece of aluminum, machined to a conical shape and drilled to accept the three turnstile arms. The arms are 1.5" OD #304 stainless steel tubing sealed at the visible end with a welded stainless steel cap. The arms are press fit into the rotating head and secured without the use of visible exterior fasteners.

HYDRAULIC DAMPENING AND SELF-CENTERING

Turnstiles have an adjustable hydraulic dampener that provides a controlled rotation, smoothly returning the turnstile arms to the home position for the next user.

OPTO-INTERRUPTOR DETECTION ASSEMBLY

An internal, non-contact, opto-interruptor provides feedback to the access controller when a rotation occurs. The turnstile does not use mechanical microswitches.

PRINTER (DUAL TAS12P-EDC ONLY)

The Dual TAS12P-EDC includes an integrated high-speed kiosk style receipt printer which is typically used to print seat locator slips, receipts and reward coupons. The printer, a Zebra Model 403, has a maximum print speed of 6" per second.

OPERATION AND INTERFACE

OPERATING MODES

The Dual TAS12-EDC and Dual TAS12P-EDC are used in the following operational modes:

Patron Self-Validation (Entry and Exit)

The turnstile is in a normally locked state. The patron is instructed to scan their credential which is validated by the access control system. If the presented credential is valid, the turnstile plays the associated "valid" sound file, unlocks and the patron is allowed to pass through the turnstile. Lights in the rear of the scan head provide notification of the presented credential status for attendants. As the turnstile is rotated the passage is recorded, providing an accurate entry or exit passage and a notification to the system to relock the turnstile for the next patron.



Screen Prompts can be customized by the venue

If a Dual TAS12P-EDC is used and printing is associated with the presented credential, an associated seat locator, receipt or coupon can be printed during the entry process.



Attendant Operation and Diagnostics

Logging in via the touchscreen display provides attendants access to various functions, such as information-only ticket lookups, overrides and manual credential input. A diagnostic/configuration menu, also accessed through the touchscreen, allows authorized personnel to make configuration changes and test product functionality.

Interface to Access Control System

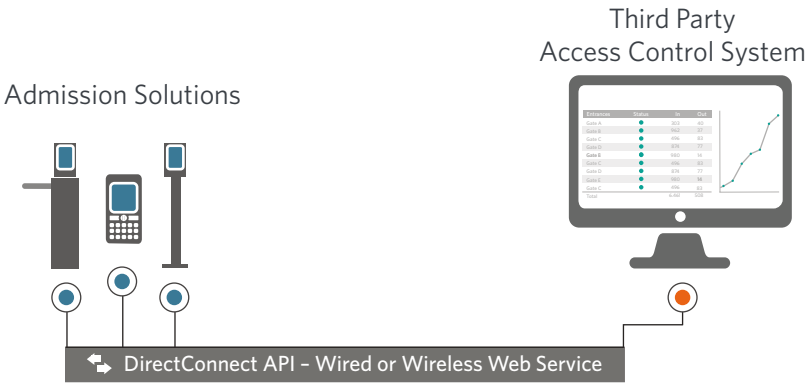
The TAS12 series turnstile models interface to Alvarado's entertainment facility access control system, GateLink10. Customers with an existing access control system can integrate directly to TAS12 series turnstiles following Alvarado's *DirectConnect API* command structure. In either case, communication is via wired or wireless TCP/IP.

TAS12 series turnstiles provide various methods of offline validation in the event that communication between the turnstiles and access control system is interrupted.

Using Alvarado's GateLink10



Using Alvarado's *DirectConnect API*



AVAILABLE FINISHES

STAINLESS STEEL

The cabinet, lid and scan head are fabricated from #304 stainless steel polished to a #4 satin finish.

POWDER COATED

The cabinet is powder coated. The stainless steel lid, scan head and the head and arms are not powder coated. Powder coating is available in a variety of colors.

OPTIONS

ALTERNATIVE MEDIA READERS

Other media readers such as an NFC/RFID reader or magnetic stripe reader can be added to the turnstile. NFC/RFID readers are typically installed on the underside of turnstile lid with the read area covered by cast acrylic. This allows credentials to be validated by holding the credential over the reader.

DIGITAL ROTATION 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.

DROP ARM

The horizontal turnstile arm drops down to provide a clear passageway. The mechanism is electro-mechanical. The arm drops when power is removed from the turnstile. This option is not available with the battery powered option.

FAIL-SAFE / FAIL-SAFE OPERATION

Both sides of the turnstile unlock on loss of power and provide free passage in both directions. Fail-lock/fail-lock mode is used with battery operated turnstiles to conserve power. A key switch allows the turnstile to be unlocked in either direction.

PORTABLE

AC Powered Portable	The turnstile is attached 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.
Battery Powered Portable	The turnstile is attached to a black powder coated baseplate with stainless steel guide rail. An internally-mounted battery provides power. Wireless communication only.

VINYL COVER

Vinyl covers are available to protect units when not in use.

WIRELESS COMMUNICATION

Wi-Fi communication (802.11a,b/n).

SHIPPING AND SITE PREPERATION

SHIPPING

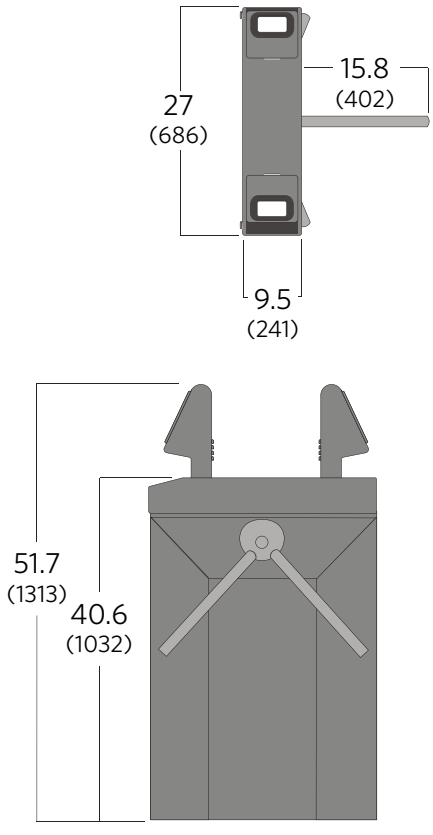
The turnstiles are shipped assembled. The scan head assemblies are shipped separately and are attached to the turnstile during the installation process.

SITE PREPERATION

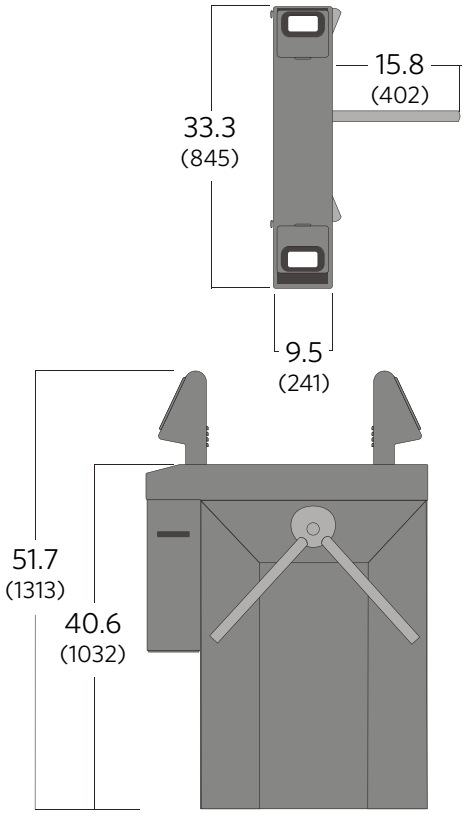
Fixed mounted turnstiles must be installed on a firm foundation in a manner that allows the power and communication cabling to be pulled into the unit. The recommended slab platform should be a minimum of 4" deep, level concrete. Concrete anchors, bolts and washers are included with each turnstile. A skilled installer following Alvarado's directions and instructions should perform installation. Detailed drawings and installation manuals are available online.

TECHNICAL DIMENSIONS

Dimensions are shown in inches (mm). All measurements are approximate.



Dual TAS12-EDC



Dual TAS12P-EDC

Electrical	Description	
UL Rated Power Supply	110-120 VAC, 60 Hz or 220-240 VAC, 50 Hz (optional)	
Power Requirements	Maximum power consumption is 75W per turnstile (Dual TAS12-EDC) or 160W per turnstile (Dual TAS12P-EDC).	
Operational Voltage	Primary power is stepped down and rectified for low voltage 12VDC and 5VDC operation (Dual TAS12-EDC) or low voltage 24VDC, 12VDC and 5VDC operation (Dual TAS12P-EDC).	
On/Off Switch	A recessed on/off switch is provided at each turnstile.	
Fuse Protection	Turnstiles are fuse protected.	
Surge Protection	Alvarado suggests use of surge protection equipment in connection with the installation to protect electronics.	
Weights and Environmental		
Product Weight	170 lbs. Dual TAS12-EDC; 180 lbs. Dual TAS12P-EDC	77 kg; 82 kg
Shipping Weight	345 lbs. Dual TAS12-EDC; 355 lbs. Dual TAS12P-EDC	156 kg; 161 kg Shipping Crate(s) Included
Operating Temperature*	15° to 122° F	-10° to 50° C
Storage Temperature	-30° to 160° F	-34° to 70° C

*Recommended installation environment for TAS12 series turnstiles is indoors or outdoors. If outdoors, in a covered location out of direct weather.

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.