



Aviation Solutions

Why Tyco for airports?

- Our systems help protect over 110 airports
- Secures over 80% of UK Airports and more than 60 US Airports
- Tyco has the only dedicated airport specific access control system available on the market

Securing the gateways of the world...

Tyco security solutions are the preferred choice of many of the world's leading airports. Tyco solutions have a proven record as the most flexible, reliable and resilient airport security solutions available. From the only airport specific access control system to the integration of access control, intrusion and CCTV to provide a one-stop security offering, Tyco Aviation solutions can provide fully integrated security control.

The core to security control

Tyco Aviation solutions are used by leading airports and airlines around the world, including over 80% of UK airports to address their security needs by:

- Controlling access throughout the airport and prevent unauthorized access to secure areas
- Providing CCTV monitoring to ensure a safe environment for passengers and staff
- Managing the flow of passengers, visitors and baggage through access points inside the airport
- Manage vehicle flow and control of vehicle access
- Helping meet security regulatory standards
- Providing command and control for airport security, and law enforcement agencies

Beyond security

Historically security systems only focused on meeting the security needs of the business but Tyco Aviation solutions can help improve business effectiveness by:

- Controlling and monitoring the usage of equipment to allow apportioned charging
- Controlling the access by contractors for Health and Safety monitoring
- Control and monitor the use of air bridges to improve availability and usage monitoring
- Control access to car parking facilities to improve the effective use of spaces
- Help meet 'green' targets through the recording & monitoring of car sharing schemes or enabling electricity supplies and other controls.



Designed for the future

Economic pressures and the changes to government and industry regulations means that the aviation sector has to continually adapt quickly to change. Tyco Aviation solutions provide innovative features designed to change with business needs.

- Virtually unlimited system expansion
- IP and serial devices to cater for new and legacy infrastructures
- High Power PoE+ devices removing the need for local power at devices.
- Distributed intelligent devices with onboard memory for central and remote configuration and maximum system resilience
- Portable hand-held readers for ultimate flexibility
- Standalone or seamlessly integrated system – Access Control System, Biometrics CCTV, DVR, Intruder Alarms, and 3rd party external systems integrated as one complete security solution.
- Compatible with industry standard open protocols
- World's most widely adopted line of video based security & integrated solutions

An access control solution



Advanced access control for mission critical airports

Tyco's range of intelligent card readers offer advanced access control at secure points throughout airports, controlling airside and landside boundaries, gates, Air Traffic Control Towers and associated remote buildings. With an internal database, card readers can validate cards and store transactions when offline, ensuring zero system downtime and a fully operational airport environment. With a keypad feature for additional PIN security and an LCD display, messages such as 'Access Denied', 'Card Expiring' and 'Lost/Stolen' Card are easily displayed.

Portable Card Readers

Tyco was the first in the industry to introduce portable hand-held card readers. Portable readers offer a quick way of providing temporary check points for random security spot checks around the airport or can be used for external areas inaccessible for cables.

Airport Specific Door Modes

Tyco card readers feature airport specific door mode's including:

- Passenger
- Equipment Enable
- Trolley
- Lobby
- Air-bridge Mode

Ideal for the airport environment, Tyco reader modes control doors and external equipment to enhance the overall efficiency of airport operations and passenger

throughput. For example, to control baggage belts, check-in desks and control and monitor high maintenance loading air-bridges. Card readers are also widely used to enable the free flow of passengers through departure and arrival gates without compromising security by creating security airlocks across the RZ 'Restricted Zone' line.

Biometrics

Many airports are adopting biometric technology to check not only that ID cards are valid, but that the authorized card holder is using the card. Tyco has many fully integrated fingerprint card readers, with systems able to integrate seamlessly with 3rd party biometric systems e.g Iris Scan.

Airport-specific software

Designed for airports by airports, Tyco's software suite incorporates airport specific screens to fit within the operations and procedures of airports. With an Imaging and Pass Production system, airport security can also capture images and personnel data for the creation of bespoke ID cards. Cards can be colour coded to DfT (Department for Transport) requirements to assist with the visual verification of a person's right to be in any given area.

Video & Alarm management



Integrated Alarm Management

With a powerful integration platform, Tyco security video based products can work seamlessly with Tyco access control and intrusion products. These provide airport customers with greater ease of operation and faster access to the information they need in critical airport situations.

Tyco access control products can also be used as the means of integration to other Tyco electronic systems (& 3rd party systems) installed at airports including; Fire, CCTV, DVR and Intercoms. Airports can have access to one graphical command and control centre, with CCTV and access control alarms / devices highlighted. This enables airport operators to monitor multiple systems and instigate corrective action in real time. Access control alarms can be associated with digital video clips, or intercoms used to trigger CCTV cameras, enabling guards to respond to instances from one central source.

Airports use Integrated Video for a number of reasons including:

- Air traffic control tower requires CCTV to monitor runways and taxiways
- The first area that needed new cameras was the Airport Operations Centre to monitor aircraft movements on the runways, taxiways and aprons
- Public safety, security and anti-terrorism operations
- Baggage handling – to check for lost or abandoned luggage and carousel operation
- Customs & Excise

- Cargo Sheds, airside gates and perimeter monitoring
- Retail and catering operations
- Parking facilities and car rental desks – viewed by both security and the rental companies themselves for staff protection and monitoring customer check-in queues
- To provide surveillance for all doors and gates while creating real-time alerts
- Airports can access historical video that is often required for insurance claims. With the integrated security system in place, each security officer can monitor hundreds of security cameras. If an alert occurs, the officer can immediately access the camera and associated access device to glean what is happening on the scene. This approach accelerates response times to true incidents and vastly reduces the number of false alarms.



An operational solution for airports...

Tyco aviation security solutions help more than 200 aviation clients run more efficiently in terms of both cost and operations. Using the system data for sophisticated reporting purposes, airports can reduce costs without compromising security.



Passenger Segregation

Airports or airlines can segregate arriving and departing passengers by using intelligent Tyco card readers. The card readers are interlocked so that if one reader is in Passenger mode (for multiple throughput) the other can only be put in Staff mode (for individual entry).

Check-In Desk Enabling

Check-In Desk enabling provides the control of and reporting on shared check-in desks. Card readers can be used to enable/ disable check-in desks or luggage carousels and provide data on equipment usage by means of an operator swiping a valid card. The system can provide a report on check-in desk usage which can be sent to the finance system used to invoice airlines for their use of the check-in desk.

Air-bridge Monitoring

Air-bridge Monitoring is used to provide control over the use of air-bridges ensuring that only authorized and trained personnel can use them. Tyco card readers installed at each air-bridge ensures that operators must use a valid card before it can be used. The system displays the status of each air-bridge on a graphical display and provides data for advanced reporting. The system enables airports to reduce maintenance costs associated with air-bridges, such as faults and charge airlines for their use.

Guard Tours

A Guard Tours application allows airport Security Managers to monitor the progress of Guards when patrolling sections of the airport. Tours are defined

by specifying a list of readers that must be visited in a certain order and a card swiped within a specified time. If the guard does not swipe at a reader within the pre-defined tour time, an alarm will be sent to the central alarm monitoring system.

Vehicle Management

Vehicles within the airport can be monitored to ensure that only authorized passengers within a vehicle, e.g. cars and buses, can pass a control point. Vehicles solution provides the ability to monitor and report on vehicle usage within an area such as a car parking facility, identifying when maximum management module levels are reached as well as reporting on vehicle usage patterns.

Equipment Enable

Using Equipment Enable feature on card readers, all equipment throughout the airport can be controlled and monitored for cost efficiency purposes. For example escalators, heat curtains and fixed electrical equipment can be enabled when required and automatically shut down for energy conservation.

Reducing Carbon Footprint

Airports have used solutions to implement 'environmentally friendly' initiatives. For example 'Car sharing control'. This initiative is designed to record information about staff who car share so that they can be rewarded.

Airport Link

Airports that are owned by the same operator can be linked and networked, allowing valid cardholders to be recognized from one airport to another.

Tyco's continuing commitment to the aviation sector is supported by its associate membership of the British Airports Group and the Airport Consultants Council.

www.tycosecurityproducts.com

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