

FINGERTEC



Welcome

to Explore Better Security with
ingressus

FingerTec controller INGRESSUS is the solution for better access control

10 Great Access Control features in ingressUS you need to know!

1 Anti Passback for Extra Security

Ingressus has an Antipassback feature which means a user can enter once but he must exit through the same door to be granted access again. With this feature available, a user cannot pass on his credentials to allow unauthorised individuals to access a secured zone, heightens security.

2 Fire and Burglar Alarm

Ingressus can alert users in case of fire or burglary. To use this feature, you need to install Aux input component such as smoke/heat detector first.

3 Interlocking

Ingressus has interlocking feature which is also known as mantrap, whereby, one door must be closed before it allows another door to unlock. This is important in high level security area such as a bank's vault.

Note: Available only in Ingressus II.

4 First Card Unlock

He who holds the card is king because once his card unlocks, he can allow free flow of visitors into a secured zone. Without this first card, nobody can unlock a door.

5 Multi Card Open

One card verification won't do it. You must have a minimum of 2 users to verify simultaneously to gain access to a secured zone. Can set up to a maximum of 5 users.

6 Surge Protection

Extra protection is always a winner. Ingressus provides 3 types of extra protection that could extend the lifespan of the terminals; Over Current Protection, Over Voltage Protection and Reversal Protection.

7 Flexibility

Ingressus can support several different Wiegand formats as well as various card terminal formats to provide you with flexibility for your security system.

8 Link All Security Devices

It is a total convenient for Ingressus to have all security devices linked up under one management. Really.

9 Readily Available I/O Ports

Ingressus comes with designated and labelled ports to be connected to alarms, sensors, exit buttons or other security accessories. It doesn't get easier than this.

10 Easy Communication

Ingressus is using common protocols like TCP/IP and RS485, understood by the industry, applicable by many

ingress

BEST OF ALL, IT COMES COMPLIMENTARY WITH INGRESS COMPREHENSIVE SOFTWARE

The Ingressus is bundled with the Ingress software which makes it a much more powerful security device. Below are the features of the Ingress software.



12 Ingress Software Advantages!

Centralized Management



Ingress is a server-client software that can support surveillance from multiple PCs at the same time. Save efforts, save time, reduce errors!

Configure Alerts & Notifications

Sound alerts, email or push notification can be configured and customized to alert certain personnel when certain door events are triggered for faster action.

Database Backup and Restore



Data centralized in Ingress software can be securely kept and configured for automated database backup and restore facility.

Real-Time Door Status Monitoring

Door opening/closing can be supervised at all times from the PC with the real-time door status monitoring. You know it as it happens!

IP Camera Software Intergration



Ingress can be integrated with IP camera software to increase the security by visual observations of the monitored areas as well as capturing video clips or photos.

IP camera software that can be integrated with Ingress are:

- Milestones' XProtect Series
- Epicamera cloud Storage solution.

Comprehensive Audit Trails Report



Data in Ingress can be accessible by the in-depth activity logs and audit trails, which contains the user activities, operation or any activities along with its timestamp in detail. Data is valuable in Ingress.

Real-Time Alarm and Event Monitoring



You can prioritize events and alerts to optimize the security actions accordingly in the Ingress software. Knowing what happen and when to act is key to tighter security.

Live System Control



Ingress allows the remote unlocking of doors, remote alarm releases and door unlocking schedule from a Pc by an authorised party!

Easy Data Export Facility



Ingress supports import and export of user data, transaction logs, attendance data and also the export function comes with template configuration for easy 3rd party software integration.

Offline Alarm & Door Event

The door event logs will still be in the terminal if the server is down or connection is lost. These data will be retrieved by Ingress when server is back up to preventing any loss of event logs.

Integrated Advanced Time Attendance Features



Ingress is loaded with advanced time attendance features such as weekly, daily, flexi schedule, personal/group duty roster complete with 15 important attendance reports such as electronic time card, tardiness and employee movement report.

Interactive Floor Plans



Ingress allows you to insert graphical floor maps with configured animated icons for instant tracking of door activity. Monitoring with visual map is an added advantage, definitely.

ingress
comes
complementary with
any **purchase** of
ingressUS



Get

a Complete
**Door Access
System**

Basic Package

**1 Ingressus + 2 Slave Products +
Door Accessories + Ingress Software.**



SAVE MORE

with
**Ingressus
Implementation**



ingressus

**implementation is 12-15%
cheaper than master/slave
door access system.**

**Ingressus works as a master reader/
storage system that:**

- Stores credentials
- Provides access decisions
- Connects to peripheral accessories
- Controls slaves
- Have more access control features than the regular access master readers.

So, why is it cheaper?

- One controller can cater to two/four/eight slaves rather than one reader/one slave implementation
- And slaves are much cheaper than the master



EXPERIENCE TIGHTER CONTROL with **ingressus**

1 Vandalism Protection

Ingressus is installed away from the public's eyes, hence not exposed to any vandalism activities. The doors stay intact even if the slaves are tampered.

2 Extra Surge Protection

Extra protection is always a winner. Ingressus provides 3 types of extra protection that could extend the lifespan of the terminals; Over Current Protection, Over Voltage Protection and Reversal Protection.

3 Real-Time Door Status Monitoring

Door opening/closing can be supervised at all times from the PC with the real-time door status monitoring

4 Easy Communication Method

Ingressus offers easy data communication using the most commonly used protocols which are TCP/IP and RS485.

5 Comprehensive Access Control Features

Features such as door interlocking, multi card operation, anti-pass back and etc are very important in a security system. These features ensure no person leaves the premise untraced.

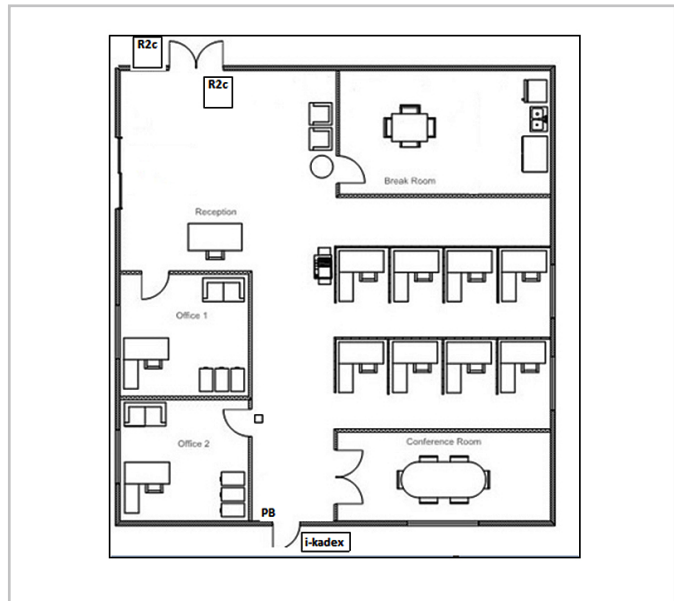
6 High-Secured Area Protection

Ingressus offers multi-card operations which will the access will only be granted when multiple cards are presented at specific device.



Made Easy with
ingressus

BASIC INSTALLATION



Based on the above plan, what do you need to install to have a complete access control system?



- 1 x Ingressus II
- 2 x EM Lock
- 2 x Door Sensor
- 4 x Slave Readers or 2 Slaves + 2 Push buttons

Pairing of reader can be made according to your budget. You can opt to have biometrics for one door and card for another, or both cards/biometrics.

Ingressus II to control the front and back door. Make sure that the distance between Ingressus and any slaves is less than 25metres for the system to work fine.

There will be power drop when connecting the slave and auxiliary output for the back door hence an additional power source is required for the back door to connect to the slave reader, door lock and auxiliary device (if any).

Once the Ingressus is connected to the doors, configure the settings for security AND convenience!

Note: Prior to deployment of the system, please do a site visit. The form in Appendix A can be used as a guide during the visit.

CONFIGURE USER ACCESS BY TIME ZONES, MULTI VERIFICATION AND VISITOR MODE

By default, Ingressus only needs users to verify their credentials to gain access.

But Ingress provides an added value to the system, an administrator can impose user access limit by time. As an example, an administrator can block access to all users to specific areas after 12:00am using Ingressus, which is known as Time Zone. Configure the start and end time for each individual, or you can create group to manage user access. Each group consists a maximum of 3 different Time Zones.

To limit employee's access after a certain time or certain areas, you can also set multi-verification, whereby employees are required to use two or more verification methods after a certain time-period or before gaining access to certain areas.

You can also set the main door to stay open during office hours to ease the movement of clients/customers to i.e. sales office. During this time-period, no verification is required to gain access at the main door.

CONFIGURE MONITORING ACTIVITIES TO GET THE BEST OUT OF INGRESS

Monitor the activities of the doors in real time or by visual monitoring via the floor map through Ingress. Customize the types of events to be displayed on Ingress. There are a total of 48 types of events for Ingressus which can be selected such as Antipassback, Normal Punch Open, Multi Card Open and many more.

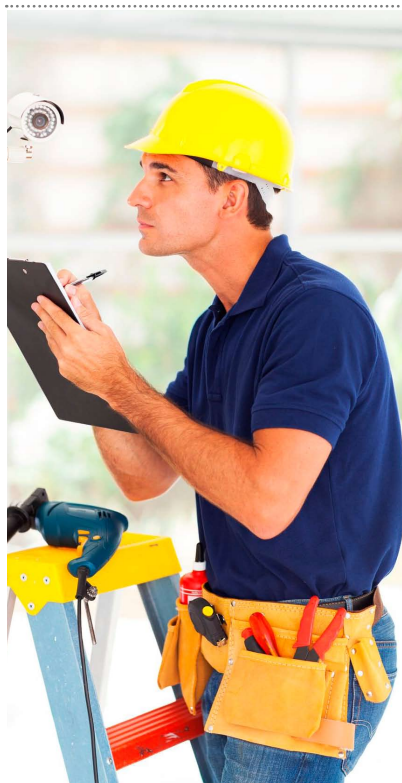
A maximum of 9 floor maps can be displayed in Ingress software for real-time monitoring. Each time an event is triggered, animated icons will blink for

instant visibility of activity. Multiple PCs can be used concurrently to perform this monitoring. An excellent way to keep your environment on continuous alert for better security

CONFIGURE NOTIFICATIONS FOR CONSTANT UPDATES OF SITUATIONS

Ingress can send emails immediately to dedicated users to report of any abnormal activities. Configure the SMTP email server settings to allow the software to send notification emails. If the users are always on the run, push notifications to the mobile is also made possible.

Incorporate IP camera into Ingress for live monitoring of the doors. The software can then stream to playback the video footage from the surveillance camera to give you the visuals of the scene.



HIGH END INSTALLATION



In a high-end installation for example in veterinary hospital, Ingressus can be implemented to the building for a total security solution. Based on the sample floor plan above, you can set up Ingressus to the doors that are meant for only authorized personnel.

Based on the above plan, these are what you need for complete access control installations.



• 2 x Ingressus I (for Server Room and Exotic Room)



• 5 x Ingressus II (for Isolation Ward, Ward, Treatment, Pharmacy Lab and Storage)



• 24 x EM Lock



• 4 x Door Sensor (1x Isolation, 1x Exotics, 1x Server, 1x Storage)






• 3 x Heat/Smoke Sensor (1x Lobby, 2x Hallway)



• 3 x Motion Detector (1x Server Room, 1x Storage, 1x Doctors Office)

SUGGESTION OF READER PAIRING

		
R2c	k-Kades	PushButton
	IN	OUT
Ward Door 1	R2c	PushButton
Ward Door 2	R2c	PushButton
Storage Door 1	k-kadex	k-kadex
Storage Door 2	k-kadex	k-kadex
Server Room	R2c	R2c
Exotic Room	i-kadex	i-kadex
Isolation Ward Door 1	R2c	PushButton
Isolation Ward Door 2	R2c	PushButton
Pharmacy Lab Door 1	i-kadex	PushButton
Pharmacy Lab Door 2	i-kadex	PushButton
Treatment Door 1	R2c	R2c
Treatment Door 2	R2c	R2c

In this scenario, there are a few rooms secured than the other. You need to install a few Ingressus to provide the security for all the restricted area/doors.

Server Room/Storage Room

For these rooms which are the most important rooms for this hospital, anti-passback can be set to prevent "piggy-back" entry. A door sensor is recommended as it can alert the administrator if the door is being tampered with or left open for too long.

Motion Detector can be installed in these rooms to detect intruders if they already bypassed the door sensor and intrude in the secure zone. The motion detector can be activated after the office hour as an invisible security guard to look after these rooms.

Exotic Rooms

These rooms are required to be locked at all times. Thus, a door sensor is recommended for this door on top of Ingressus.

Isolation Room, Pharmacy Lab & Treatment Lab

To avoid public access to the ward, installation of slave terminal as the "in" reader and pushbutton as the exit button for each door of these room are highly recommended.

Ward

When visiting hour approaches, you can set the ward door to visitor mode to ease the in/out movements of visitors. During this time-period, no verification is required to gain access to the ward door. However, once the visiting hour has ended, verification is required to gain entry.

USER

If there are many terminals in the company, you can group the terminals (Terminal Grouping) and transfer the user to the Terminal Group with just 1 click instead of transferring to the terminal individually.

Access Level

For a large organization, you can create multi level account with different authorities for employees to login to the Ingress software. Multiple PCs can be used concurrently to perform the monitoring.

Below are the table comparing the easy and high-end implementation of the Ingressus Hardware.

Condition	Easy (SME Office)	High end (Vet Hospital)
Door	2 doors	12 doors
Accessories		
Quantities of Ingressus	1 Ingressus II	2 Ingressus I; 5 Ingressus II
Door Sensor	2	4
Push Button	2	6
Motion Detector	Optional	Optional
Heat/Fire Sensor	2	Optional
User	Employee Grouping	Grouping (terminal Group)
Time Zone	Yes	Yes
Multi Verification	Yes	Yes
Permanent Door Open/Close	Yes	Yes
Access Level	Simple	Multi-User (server-client)
Floor Plan	Yes	Yes
Monitoring	Yes	Yes
Notification		
Visual	Yes	Yes
Audio	Yes	Yes
Email	Yes	Yes
Push Notification	Yes	Yes

FingerTec Ingress Access Control Safeguarding Important Documents in Nairobi

ECS Limited is a technology-based company focusing on providing smart card technology and securing vital hard copy documentations such as land title deeds, various certificates including school certificates, birth certificates and other valuable documents for depositors in the capital of Kenya, Nairobi. Due to its business nature, the company had scouted for a suitable system to secure their entire office premises.

By the end of 2013, ECS had deployed FingerTec's Ingress access control system across the entire two floors of their building with its 28 rooms with biometrics access control system to achieve greater security.

In total the deployment involved 16 units of Ingressus II, 48 units of R2 and 13 units R2c. Ingressus II works excellently to keep the data secure and Ingress was chosen due to its reliability in reports, multiple clients on one server, first card and multiple card opening, system integrations with CCTV and alarm systems. Ingress is not only in compliance with the current needs; it also leaves a room for future expansion. The choice of biometrics sys-

tem over other types of access technology is made due to the fact that fingerprints are unique and inflexible and every fingerprint record comes with its corresponding time stamp and details of the personnel accessing a certain areas or rooms, perfect for a secured system and its precise audit trail.

Security is second to none in this business of guarding hard-copy documentations and ECS turned to FingerTec for a solution. ECS, established in 2005 is also a FingerTec reseller in the land of the lion, Kenya.



R2c guarding important papers



Perlis Health Department Increases Security With Ingressus



Exterior of Jabatan Kesihatan Negeri Perlis



An employee of the department using the k-Kadex



k-Kadex is deployed for access control and time attendance in all departments

Jabatan Kesihatan Negeri Perlis or State of Perlis Health Department, located in the capital Kangar, is one of the departments under Malaysia's Ministry of Health dedicated to deal with health issues of the locals. The Health Department contains of 6 departments which include management, medical, dental, pharmacy, general health and safety & food quality department, together they aim to provide efficient health services and treatment for treatable and non-treatable diseases in the smallest state in Malaysia.

Having around 180 staff members, they were looking for a better security system that suits to the nature of their operation, to ease the movement of the authorized staff and to curb the public from entering the irrelevant areas. IraSuria Venture Sdn Bhd, FingerTec's reseller proposed them to install a combination of Kadex and Ingressus for tighter security without compromising convenience.

A total of 14 units of Ingressus 1 and 28 units of k-Kadex were installed in their office building for door access purposes.

The k-Kadex provides the organization with a simple IN-OUT access system through the use of password or card verification ensuring a high level of access control within the departments. Apart from being able to monitor door opening and closing activities at all time, the FingerTec Ingressus controllers' transaction records are saved and automatically sent to the Ingress software for processing. Ingress is loaded with great door access control features such as graphical floor map, data analysis, ip camera software integration, audit trails report and many more at customer's disposal and it also provides a simple time attendance module as an extra benefit.

IraSuria Venture Sdn Bhd has been reselling FingerTec product line for 7 years in the state of Perlis, Indera Kayangan.



A Look at **ACCESS CONTROL** in the Higher Education Industry

On April 16, 2007, Seung-Hui Cho, a senior student at Virginia Polytechnic Institute and State University in Blacksburg, Virginia, murdered 32 people and wounded 17 others in two separate attacks on the campus of the university he was enrolled in. Cho's rampage and subsequent suicide raised issues on the importance of student safety in the higher education industry.

School shooting is not a new occurrence and unfortunately, higher education institutes are not the only ones that have been targeted in such tragedies. Over the years, various schools and kindergartens worldwide have also fallen prey to his crime with innocent students and faculty becoming undeserving casualties. However, school shooting is not the only form of crime that exists on campus. Cases of rob-

beries, theft, rape and many more have occurred frequently, making studying on campus a hazardous experience.

This article address some of the concerns surrounding the issue of student safety in the higher education industry and how FingerTec's access control devices and software can reduce such cases from reoccurring to ensure the safety of students and faculty alike.

More ▶

Read full article at: <http://www.fingertec.com/academia/download/Campus1013.pdf>

It's time to **SWITCH** from using THE OLD DOOR ACCESS SYSTEM TO THE LATEST **ingressUS** CONTROLLER



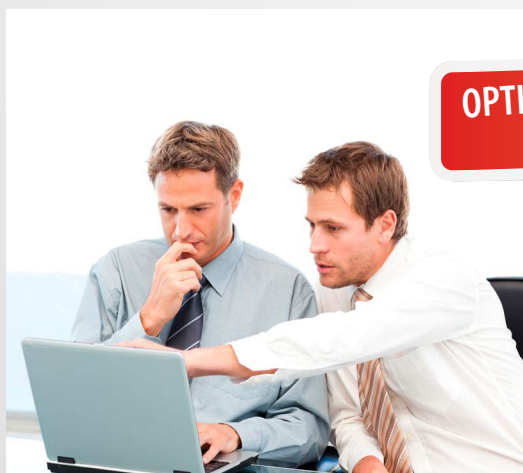
FOR RESELLERS

BUY sample ingressus package

LEARN Ingress is many features and advantages!

LEARN Ingress through FREE webinar sessions.

PRESENT Ingressus in door access projects.



OPTIONS TO PRESENT TO END-USERS

PACKAGE ingressus complete readers and accessories

OFFER training of Ingressus and Ingress.



Ingressus I

Ingressus II



R2c



k-Kadex



Ingress Software



Accessories Pack

Appendix A



ACCESS CONTROL SURVEY FORM

DETAILS OF SURVEY COMPANY

Name		Date	
Address		Phone	
		Fax	
Contact person		Email	

DETAILS OF CONTRACT

<input type="checkbox"/> New implementation	Surveyor is name:
<input type="checkbox"/> Update current system	
Acceptable price range: []	Date:

DETAILS OF CONTRACTOR/INSTALLER

Name		Date	
Address		Phone	
		Fax	
Contact person		Email	

PROJECT DESCRIPTIONS

Section1: Basic of project

1. Types of credential:	<input type="checkbox"/> Face	<input type="checkbox"/> Fingerprint	<input type="checkbox"/> Password	<input type="checkbox"/> Cards	<input type="checkbox"/> Multi-Factors: _____	
2. Types of lock:	<input type="checkbox"/> EM lock	<input type="checkbox"/> Deadbolt	<input type="checkbox"/> Door strike	<input type="checkbox"/> Turnstiles	<input type="checkbox"/> Gate	<input type="checkbox"/> Others: _____
3. Total of staff:	_____					
4. F floor plan/drawings attached :	<input type="checkbox"/> Yes	<input type="checkbox"/> No				
5. Cabling: Communications:	<input type="checkbox"/> TCP/IP	<input type="checkbox"/> RS 485	<input type="checkbox"/> Others: _____			
Cable for communication:	<input type="checkbox"/> New	<input type="checkbox"/> Existing				
Wiring of lock system:	<input type="checkbox"/> New	<input type="checkbox"/> Existing				

Section 2: Details of in-out operations/records/rules

1. Exit device per door:	<input type="checkbox"/> Device	<input type="checkbox"/> Slave	<input type="checkbox"/> Push button
2. Access restriction by time per doors:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
3. Access restriction by non-working day:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	
4. Special requests to control access of employees:	_____ _____		