



The Automated Key Guard and Management System 'AKG' is used for automatic, fast and controlled issuing of Keys to authorized and identified users who enter into controlled areas of facilities.

Purpose

The automated Key Guard cum Dispenser cabinet with admin control and input by user will allow automatic, fast and controlled issuing of Keys to users who enter into the controlled areas in facilities.

Description

The Automated KEY Guard cum Dispenser unit will consists of the following fundamental parts:

- Wall-mounted case for up to 6 rows with each row having 16 slots for key fobs i.e. total (6x16=96 KEY fobs, 4 Rows =64, 1 Rows=16)
- Touch screen user interface with RF-ID/Barcode reader for user personal identification.
- Optical status signalling of each KEY Fobs slot.
- Built-in battery back-up with uninterrupted power supply (UPS).

Specifications

- Each Key Guard cabinet 'AKG-LUxx' (of up to 5 blocks) is interfaced with a central user-interface 'AKG-CU' consisting of touch screen feature and RF-ID detector and numeric Key board for identification and Admin .
- There will be provision to keep KEY Fobs in slot randomly opened by the system or allocated by the Admin.
- The system shall maintain the log and open the same locker every time for that registered user. Admin can assign new lockers with one ID or disallow a user.
- All data of KEY Fob user should be stored and accessible to Admin: time of withdraw and submission, transactions, and, owner information and image with facility to store unlimited transaction events.
- Pre-loaded messages for display to the specific user and Welcome.

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Main Advantages

- Protects from unauthorized handling of KEYSs. After identification each worker can take out only assigned KEY Fob/s.
- Emergency opening of all Key Fob lockers by single digital command and also by a mechanical key.
- Vandalism control: snapshot of every transaction in database.
- User and admin friendly Real-time online information data storing & reporting for facilitative operation on LAN.
- Residual power management for Emergency Opening.
- Self diagnosis facility to protect misuse & detect fault.



Models and Accessories

TYPE	NAME	Number of Blocks	Number of Slots	Description
AKG-CU	Mother Unit with Touch Screen display	01 (Stand-alone)	NA	Touch Screen control unit stand alone. Can be connected up to 4-5 AKG-LUs, BUILT-IN Snap Shot camera.
AKG-LU96	Slave Unit/s to be connected to AKG-CU	Up to 04 units can be attached to AKG-CU	Up to 256	Slave units to be serial connected to Control unit AKG-CU

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Specification for IMPEX Automated KEYFOB Dispenser:

Sl	Item	Description
1.0	Key-fob Locker	<ul style="list-style-type: none">Fully Enclosed KEY-FOB Container of size <u>20X15X 40 mm (Locker)</u> protects the KEYFOB completely.Up to 64 Lockers in one cabinet [AKG-LU64].Up-to four Locker cabinets can be connected to one Control cabinet [AKG-CU].Every single locker can be replaced individually from the cabinet for repair/decontamination, if required so.Every single locker is attached with RFID reader to detect the Key fob Tag & give desirable status 24x7 as per user.No attached electronics/part to KEYFOB.KEYFOB locker made of Engineering Plastic, material similar to that of KEYFOB, thus less wear & tear.
2.0	Operation	<ul style="list-style-type: none">Permanent sealed KEYFOB can be placed in available/allocated Locker opened by flashing RF-ID/PIN. Thus, avoiding un-authorized use of KEYFOBs.Typical KEYFOB dispensing/ placing time is less than 3 sec.User identification is done by ISO14443 standard ID cards with reading and processing time is less than 100ms, Hence Control System capable of opening of one Locker every second or less on user command by RF-ID.Ease in operation by RF-ID card, PIN (or KEYFOB No.). Also, possibility to use & interface with other Personal identifications protocols.Admin Control on all user operations.Every locker has RFID reader to detect correct insertion of key-fob.
3.0	LCD Screen Display HD	LCD Touch Screen size 7" (or bigger up to 21.5"), Tampered Protected with Toughened screen having GUI display. HD quality display of Picture / Snapshots of every event.
3.1	Screen Indications	'User Details', namely User master, User Picture, Locker no./s, Occupied or Empty, User Specific Message , Slogan, Guidance etc.
4	Keyboard	Numeric Keyboard of SS for PIN entry, ADMN PIN Enter for Emergency Opening etc. for those not having RF-ID or as a parallel device.
5.	RF ID reader	For ease in operation / identification of user.

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6.	Thumb Scanner	Finger / Thumb scanner (Optional), for identification of user.
7.	Remote Access (Web UI)	Remote Access for complete control through GUI WEBPAGE on LAN. Registration of New User / all admin control, Reports, etc.
7.1	Graphical Matrix	Live Matrix Representation of Lockers.
7.2	Open/Occupied	Logging and indication of Open / Close & Empty / occupied condition of Locker box,
7.3	Reports	Automatic Report Generation at Admin for various operational use. A data Logger with compatible out-put device. Viz. Guard changeover/handover report. PRINT/Email.
8.	LED Indication	LED at Locker glows in Occupied condition.
9.	Camera	'Picture Snap shot' facility provide a useful Protection against Vandalism & misuse. This facility is Important as Data Log file shall have PSS of the user, No need to open separate video clipping file for diagnosis.
10.	Emergency Key (Mechanical)	Emergency Opening of All Lockers with-out electrical/electronic support, Max Response time 10 seconds for 96 Lockers. No need of any type of battery assisted key for this opening.
11.	Emergency Key (Digital)	Emergency Opening of All Lockers by ADMN command, Max Response time 10 seconds for 96 Lockers.
12.	Power Backup	Compact Li-ion Battery in side control unit gives a power backup for Full Operation up-to 6 hours. Residual power system for Emergency opening of all or any Locker. Additional Power Back possible on demand.
13.	Data /Record	Facility to log up to 2,00,000 transaction events smoothly. Additional data storage. Multi-layer data protection at system level itself. Data dumping on building database network. Daily reports automatically on email/s.
14.	Stand Alone Unit	No HOST Computer need for running the Dispenser. However Report Generation require a LAN connected PC.
15.	LAN/WAN	LAN connectivity for Admin control: User registration, User/Locker Control, data retrieval/update. Can also work as stand-alone mode. Multiple cabinets can be networked. Remote access to secured web page from anywhere in connected network.
16.	Alarm	Adjustable Continuous alarm for mishandling or wrong insertion of Key fob.
17.	Power Supply	220 V AC / 110 V AC. 5 Amp max.
18.	Operating Environment	0 to 60 Degree Celsius with Relative Humidity 95%

*Data Sheet/ IMPEX/ TLD Dispenser/ Automated Key Guard and Management system specification subject to change without prior written notice.

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