

Just as electronic access control devices have revolutionized how you implement security systems for facilities, eKey Technology will alter how access codes are provided and controlled. eKey Technology is a result of countless hours of development and technology breakthroughs in micro-processors. The results provide answers to a number of challenges and gaps faced by the security industry.

eKey Technology was designed to provide a cryptographic standard by which facility access devices are controlled by a time based control time based algorithm with no preprogrammed user codes. The eKey Technology is unique in its ability to control user access to a device remotely with no additional programming after the initial set up. Once an eKey enabled device is programmed with specific device information and placed into service, the only time it will ever need to be touched again is for an audit or for maintenance; there are no codes to compromise or delete after a user leaves... there are no codes. Once the period requested has expired, the eKey is automatically no longer valid.

When developing the eKey Technology substantial consideration was given to the quality, strength and durability of the codes generated. Each eKey has more than 73 Billion possible combinations for any given period of time, making each eKey truly unique. This was achieved utilizing the well tested RC5 encryption algorithm with a 128 bit encryption key and six unique variables in the key generation process. The RC5 algorithm, developed by RSA, provided a well tested, secure and reliable cryptographic algorithm and provided the ability for even an 8 bit micro-processor to decrypt the eKey in less than one hundred milliseconds.

During the initial setup of an eKey enabled device two items must be set: the date and time where the device will be installed and a device identification number. Each device is assigned an identification number selected by the owner of the device; there are 65,000 possible ID numbers. The Start Date, Duration, Start Time and End Time of an eKey are specific to the dates you want to provide access to the device. The Start Date is any valid calendar date, up to 365 days including leap year. The duration is any number of days between 1 and 250. The Start and End Times are any one of 24 possible hours.

The eKey Technology also provides the ability to select either a Standard or Maintenance code. Standard codes can be issued for a duration up to 250 days with any combination of start and stop time. The Maintenance codes are limited to one day intervals and have the ability to provide access for as little as 2 hours or as much as 24 hours.

eKey Technology provides increased security and flexibility where access control is needed for a specific user and for a predetermined period of time. Each eKey is specific to a device beginning on a specific date and time and is valid for a specific duration; each variable is defined at the time an eKey is generated. No eKey is ever programmed into a device; they simply exist and when valid access is granted. This reduces lock maintenance, re-keying or replacing lost keys and provides decreased operating expenses.

eKey Technology is an ideal solution for custom security integrators, government buildings, military housing, university locker rooms, sports complex (stadiums, arenas, music venues), vacation rentals, time-shares, condominiums, resorts, corporate housing, educational housing, conference centers, meeting facilities, storage facilities, remote facilities or any facility requiring time based controlled access.

To find out how your company and customers can benefit from the power of eKey Technology in your applications today or to find out about eKey integration options and pricing, call 800.761.4991.

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