SECURA KEY
Access Control System Worksheet

SECURA KEY PRODUCTS

The SECURA KEY access control system uses one or more control panels, each connected to one or two card readers, keypads or biometric sensors. The system is programmed using SK-NET™ software running on a Windows computer (XP, Vista, Windows 7/8). The following questions will guide you through the process of designing a system, and will help you to develop an equipment list and a total cost. This worksheet also allows you to build a system based on our pre-packaged 2-door system kits, or by ordering individual components which meet your custom requirements.

Designing a System Using Pre-Packaged Kits

You can save 12-22% on hardware costs by using our pre-packaged kits to configure your system. e*ACCESS kits feature Secura Key's e*Tag® smart card technology, which offers higher security and additional data storage on the card, but works just like proximity. SYSKITs feature Secura Key's Radio Key® reliable proximity technology. Each kit has a control panel, two readers and a power supply. Starter Kits also include the SK-NET-DM basic software, a PC cable and 25 cards. Add-on kits do not include software, cable or cards, and Starter Kits Without Cards allow the user to purchase keytags or custom cards separately.

To design a system, purchase a starter kit (with or without cards) for the first two doors, and an add-on kit for every additional 2 doors. Additional cards can be purchase separately.

Note: If you are using pre-packaged kits, please review the rest of the Worksheet, which discusses other components not included in the kits, such as spares, lightning suppression, network modules, power supplies, cable and door locking devices

Kit Part Number	Description
e*ACCESS KITS - Featuring Smart Card Technology	
e*ACCESS1	Starter Kit, mullion readers
e*ACCESS2	Starter Kit, Wall switch readers
e*ACCESS3	Add-on Kit, mullion readers
e*ACCESS4	Add-on Kit, Wall switch readers
e*ACCESS5	Starter Kit, Mullion readers, no cards
e*ACCESS6	Starter Kit, Wall switch readers, no cards

SYS-KITS - Featuring Radio Key® Proximity Technology	
SYSKIT1	Starter Kit, mullion readers
SYSKIT2	Starter Kit, Wallswitch readers
SYSKIT3	Add-on Kit, mullion readers
SYSKIT4	Add-on Kit, Wallswitch readers
SYSKIT5	Starter Kit, Mullion readers, no cards
SYSKIT6	Starter Kit, Wallswitch readers, no cards

Starter Kit   Cost each
(For Readers 1 & 2):   ____1____   x   _____   _____
                                    starter kits   total cost

Add-on Kits
(For Systems with more than 2 readers):   (_____) X ½ =_____) x _____   _____
                                    # Readers   # add-on kits   total cost

                                                                                                          _____
                                                                                          Total Cost:

Designing a System, using Individual Components

How many readers will there be?

Usually there will be one reader per door, but if you want to monitor traffic in and out, you will need two readers per door. The readers must be located within 500 feet of a control panel, so you may need an additional panel for any single door which is located over 1000 feet away from other doors. Each SK-ACPE supports 2 readers.

SK-ACPE-LE Control Panel

_____ (divided by)2 = _____ X _____ = _____
# of readers   # of panels   cost each   Total Cost

Secura Key offers a variety of readers that can be used with the SK-ACPE-LE. Wiegand output readers by other manufacturers can also be used. You can review reader choices on our web site.

Card Readers

e*Tag® Contactless Smart Card Readers: ET8-RO-W-M ___   ET8-RO-W-D ___
                                      ET4-WXM ___   ET4-WXS ___

Radio Key® 125 KHz Proximity Readers: RK-WM ___   RK-WS ___   RK-WL ___
Wiegand-Output Piezo Keypads: SK-KPM ___   SK-KPS ___
Dual Technology HID Compatible Readers   RKDT-WS____   RKDT-WM___

_____ X _____ = _____
# of readers   cost each   Total Cost

Spares (optional)

Although Secura Key equipment is well-known for its reliability, we recommend that you order up to 10% spares for readers and SK-ACPE-PCBAs (printed circuit boards), particularly in areas with high lightning activity.

Spare Readers   _____ X _____ = _____
                                      # of readers x 10%   cost each   Total Cost

Spare SK-ACPE-PCBAs   _____ X _____ = _____
                                        # of panels x 10%   cost each   Total Cost

How many cards or key tags do you need?

Minimum order quantity for cards and tags is 50. (Packs of 25 are available from stock, but you have no choice of the facility code or card numbering.) **You must order the correct card/tag type to match the readers selected.**

Cards for e*Tag® readers:

ETCI-04 or ETCI-04 standard cards (specify format)
ETST-03 or ETKT-03 key tags (specify format)

Cards for Radio Key® readers:

RKCM-02 (Format 201 (26bit) or Format 303 (32bit) molded cards)
RKCI-02 (Format 201 (26bit) or Format 303 (32bit) ISO cards)
RKKT-02 (Format 201 (26bit) or Format 303 (32bit) key tags)

_____ X _____ = _____
# of cards/tags   cost each   Total cost

Additional Cards

In addition to one card per employee/user, we recommend that you order additional cards, so that you can quickly replace cards which are lost, stolen, or damaged.

_____ X _____ = _____
# of cards/tags   cost each   Total cost

www.SecuraKeyStorecom | (800) 878-7829 | Sales@SecuraKeyStore.com

How will you provide power to the system?

In most cases, you can connect each SK-ACPE-LE to a low voltage power source (at least 500 mA) and the readers will receive power from the control panel. We recommend using our SK-24VDC, 1Amp power supply or our SK-XFRMR 16.5 VAC, 40 VA transformer. Either will be adequate to power the SK-ACPE and the RK-WL long range readers.

SK-ACPE-PS or SK-XFRMR Power Supply w/ Standby Battery

_____ X 1 = _____ X _____ = _____

\# of panels   # power supplies   cost each   Total Cost

How will you connect the system to your computer?

You can choose to hard-wire the system to a PC or just plug in a laptop when you want to do programming. SK-NET-MLD software is required for remote locations connected using a dial-up modem or if more than one TCP/IP connection is required.

You can connect one SK-ACPE directly to the PC or to the Network, and then additional SK-ACPEs can be daisy-chained from the first panel using RS-485 over twisted-pair cable. With SK-NET-MLD, you can connect all panels to the network, using the built-in Ethernet connector or a SK-WLSE-MOD wireless network adapter on each panel.

	Cost each
SK-USB - Converts PC/USB connection to DB9 serial COM port.	_____
RS-232E - MTA connector to DB9 cable assembly for temporary PC connection	_____
SK-PLUG9 DB9 - plug pigtail for permanent RS-232 connection	_____
NET-CONV-P - RS-232 to RS-485 converter, for computer over 100' away	_____
SK-MDM - External 56K modem, pre-configured for SK-NET™	_____
SK-WLSE-MOD - Plug-in module for connection to a wireless LAN	_____
Total cost:	_____

Lightning Protection (recommended)

In areas with high lightning activity, we recommend lightning protection devices for reader and data cables. Surge protection will minimize circuit damage from nearby lightning strikes. At a minimum, we recommend: 1 DTK-CR per card reader and 1 DTK-XR per panel (using an RS-485 connection).

_____ X _____ = _____

\# of readers   cost DTK-CR   Total Cost

_____ X _____ = _____

\# of panels   cost DTK-XR   Total Cost

Which software version do you need?

Basic SK-NET™ manages one location from one, locally connected computer. Upgrade versions allow multiple locations, remote sites and multiple workstations.

	Cost Each
SK-NET-DM - Basic software, one PC, one LAN connection or one location.	_____
SK-NET-MLD - Multiple locations via dial-up modem or multiple TCP/IP connections	_____
SK-NET-MLD-C/S_ - Client/Server version has features of SK-NET-MLD plus multiple workstation access and five software user levels.	_____
Total Cost:	**_____**

What equipment do I need from others?

WIRE- You will need six-conductor, shielded cable (not twisted pair) between the panels and the readers. This same cable can be used to connect the PC to the panels, when the nearest panel is within 100' of the computer and the SK-PLUG9 is used. You will need two twisted-pair (or CAT5) cable between the panels and also from the NET-CONV-P (if used) to the nearest panel. You will also need standard 18-2 cable for lock, power and accessory connections.

$$\underline{\hspace{3cm}} \quad X \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Ft. of 6 conductor cable   cost / foot   Total Cost

$$\underline{\hspace{3cm}} \quad X \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Ft. of CAT5 / 2 twisted Pair   cost / foot   Total Cost

$$\underline{\hspace{3cm}} \quad X \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

Ft. of 18-2 cable   cost / foot   Total Cost

LOCKS / OPERATORS- The system can operate all types of electric locking devices and gate operators. Separate power supplies should be used for these. Auxiliary controls, such as request-to-exit sensors, can also be obtained from your gate, security or low-voltage equipment supplier.

$$\underline{\hspace{3cm}} \quad X \quad \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

\# Locks/Operators   cost each   Total Cost

The above guidelines cover the most common applications. For special circumstances or integration with other systems, call Secura Key for assistance.

NOTES