

MicroTouch Key

Micro-TouchKey is an innovation in access control. It combines electronics and a software package which runs on a PC under windows to produce a low cost, easy to maintain, flexible access control system for one or many doors.

The **Micro-TouchKey** door access system consists of the **Micro-TouchKey** reader head and an ultra-compact controller which holds its own list of valid **TouchKeys**. The controller releases an electric lock when a keyholder presents a **TouchKey** it recognises.



Features:

- Access control** at a touch
- Memory** for up to 1000 keyholders per door
- Electronic** 'iButton' in a tough stainless steel case
- Unique serial number** assigned to each key, without duplication
- Easy to use** and convenient to carry on a keyring
- Programmable** door access system using Windows software makes it easy to add new TouchKeys or void lost or stolen TouchKeys – no need to change locks when a key is lost
- Access to a combination** of doors
- No data cabling** is needed – access rules are carried from the PC to a door controller using a master TouchKey
- Two time zones** – one giving 24 hour, 7 day access, a second for restricted access
- Door release time** and door alarm delays can be programmed – an alarm will be activated should the door be forced or held open
- Non-volatile memory** – the Micro-TouchKey controller will not lose its list of valid TouchKeys should the power be removed

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Before a TouchKey can be granted access, it must be entered onto the database. This is done by first entering a keyholder's name, together with the combination of doors where access is to be given. Then the TouchKey ID is captured by placing the assigned TouchKey onto the programmer unit connected to the PC.

To program a door, first present a memory TouchKey to the programmer unit. Select the door to be programmed and download. This will transfer the access information for that door to the memory TouchKey.

Next take the memory TouchKey to the door and touch it to the door controller's reader head. The list of valid keyholders will be copied from the memory TouchKey to the door controller's memory – this procedure is both quick and simple.

Technical Overview

Reader Head

The reader head is a small robust, all weather, maintenance-free unit which can be mounted internally or externally. Its small profile and simple snap-on fixing makes for ease of installation and maintenance.

Dimensions:	Length 50mm, width 30mm, depth 15mm.
Operating temperature range:	-20 to +70°C.
Indicator lamps:	Green – access granted and red – access denied.
Style:	Stainless steel.

Door controller

The door controller consists of an ultra-compact PCB which can be fitted in a standard electrical wall fitting or combined with an exit switch and door open alarm.

Dimensions: PCB:	Length 51cm, width 60mm, depth 17mm.
Enclosure:	Standard 25mm 1-gang wall box (surface or flush mount) with blanking plate.
Power requirement:	10 milli-amp at 8-15 volts ac or dc
Operating environment range:	-20 to +50C, rel. humidity 90% non-condensing.
Memory:	Electrically erasable PROM (will survive a power failure without the need for battery back-up).
Doors:	The Micro-TouchKey door controller controls entry through a door. Exit is achieved by use of a normal door handle, exit button or second Micro-TouchKey reader head.
Keyholders:	The door controller holds up to 1000 keyholder identities.
Two outputs:	Set of voltage free relay contacts (NO and NC) rated for 1 amp at 30 volts to control an electric lock; connections for a local alarm.
Three inputs:	Door ajar monitor; exit button; an input to switch between time zone one and time zone two.
Memory TouchKeys:	Three versions are available with a memory capacity for 60, 250 and 1000 TouchKeys.

