



- **KEY-RAS Radio Arming Station – Installation Instructions**
- **KEY-RAS Funkaktivierungsstation – Installationsanweisungen**
- **Clevisier de commande radio KEY-RAS – Guide d'installation**
- **KEY-RAS - Radio-stazione di inserimento – Istruzioni per l'installazione**
- **KEY-RAS Dredloos inschakelpaneel – Installatiehandleiding**



## Introduction

The KEY-RAS allows users to get, insert and part-set the system, operate output devices, and query the current arming status of the system.

You can configure the KEY-RAS in either 1-way or 2-way mode.

- 2-way mode provides full functionality and is compatible with later-generation control units (see Specifications). It enables the KEY-RAS to display the current set or arming status of the system, and to send entry, exit and alarm tones.
- 1-way mode gives backwards compatibility with previous-generation (HSE) arming stations, and cannot send back the current status of the system or possible entry, exit and alarm tones.

**Note:** When installed in a partitioned system, the KEY-RAS can be used with only one partition.

### Features:

- Used to set, insert or part-set the system, and operate output devices
- Includes an internal proximity reader
- 1-way or 2-way mode available
- Query key (operation for 2-way mode only)
- Hold-Up Alarm (HSA) and programmable ABCD keys
- Battery powered, with optional connections for an external supply
- Cover and back tamper detection
- Easy to install
- Uses Rolling Code technology for enhanced security

The control unit's Engineering Guide specifies the maximum number of devices you can use (see page 1-100). The KEY-RAS User Guide gives details about how to use the device.

This product must be installed and maintained only by qualified service personnel.

### External power supply

An optional 5V/500mA external supply (not provided) can be used to prolong battery life. This connection is used only if the battery fails. **Never** connect power to the device, even if an external supply is used.

## Step 1: Choose the mounting location

Locate the KEY-RAS out of sight of potential intruders and within the area protected by the intrusion system.

To ensure correct operation of the internal proximity reader and radio transceiver, the host must be KEY-RAS.

- Minimum 5 metres of another proximity reader (including one located within a keypad).
- In a metal enclosure.
- Near to any source of electromagnetic or radio interference.
- Minimum 5 metres of high-voltage cables, smart buses, computers, photocopiers, or other electronic equipment.

Check that the KEY-RAS will be within radio range of the control unit or expansion. You can use the Test menu to check signal strength (see below).

## Step 2: Mount the backplate

1. Using a thumb (not a screw), flip down the screen covers and remove the screws (Figure 1).
2. Lift the cover assembly, off its hinges.
3. Mount the backplate to the wall (Figure 2).



Figure 1. Removing the cover

Use the supplied 3mm x 16mm (M4x1) screws for the tamper block.



Figure 2. Mounting the backplate

## Step 3: Configure the DIP switches

**Note:** You must configure the DIP switches before connecting up the KEY-RAS.

The DIP switches are located on the PCB.



Figure 3. DIP switches

**ABCD LEDs:** Applicable only if the KEY-RAS is powered externally – If set to OFF (default) for battery operation, the ABCD LEDs switch off 30 seconds after the event that is them. If set to ON, the LEDs remain permanently lit.

**BACKLIGHT:** Applicable only if the KEY-RAS is powered externally – If set to OFF (default) for battery operation, the LED backlight switch off 30 seconds after the event that is them. If set to ON, the backlight remains permanently lit.

**BACKLIGHT BRIGHT:** Set to ON to enable full brightness for the backlight. Set to OFF for reduced brightness.

**PROX:** Set to OFF to enable the internal proximity reader. Set to OFF to disable the proximity reader.

**BATTERY TONES:** Set to ON if you require a tone each time a key is pressed. Set to OFF to disable the tone.

**1-WAY / 2-WAY:** Select 1-way or 2-way mode.

## Step 4: Power up the KEY-RAS

Remove the insulating tab from the battery compartment. If applicable, connect the external power supply to the terminals on the PCB. Do not cut the front cover at this stage.

## Step 5: Learn the KEY-RAS

1. From the control unit's installer menu, select the option to add a radio keypad (1-WAY for 1-way mode, or 2-WAY for 2-way mode).
2. Operate the tamper switch. You should see confirmation at the control unit that the device has been added.
3. Re-fit the front cover.
4. In the installer menu, add the radio keypad to configuration:
  - The partition that the KEY-RAS is to control (partitioned mode only).
  - The action for each ABCD key: Full set, part set, or operate an output rel type (see below).
  - **Battery Only:** Choose Yes if only a battery is used, or No if an external PSU is also used. Selecting Yes prompts an "REL or REL Full" message, which indicates loss of power supply.
  - **Buzzer Volume:** Choose the required volume of the internal siren.

Installation is now complete.

**Note:** Sounds from the KEY-RAS may start and stop after a short delay. This is normal, and is due to the nature of the radio communications.

# Scantronic 9000 Installation Manual

**International Business Machines  
Corporation**



## **Scantronic 9000 Installation Manual:**

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**Information Technology Systems Installation Methods** BICSI.,2013      **ORBIT User Manual** System Development Corporation,1979      **OS TSO Assembler Prompter** International Business Machines Corporation,1972      Orbit User Manual SDC Search Service,1976      **ORBIT User Manual** ,1986      ORBIT User Manual for SDC/TULSA SDC Search Service,1975      *TS 803 User's Manual* TeleVideo Systems, Inc,1983

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