PAC Remote Transmitter

RF Access Control Unit Installation V2.0

P/N: SK9011/A April 2024

SK9011/A_RF_AC_Install

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Contents

IMPORTANT NOTES

- This Comelit product was designed for use with access control and door entry systems in residential, commercial or industrial settings and in public buildings or buildings used by the public.
- All activities connected to the installation of Comelit products must be carried out by qualified technical personnel, with careful observation of the indications provided in the manuals / instruction sheets supplied with those products.
- Cut off the power supply before carrying out any maintenance procedures.
- Use wires with a cross-section suited to the distances involved, observing the instructions provided in the system manual.
- We advise against running the system wires through the same duct as the power cables (230V or higher).
- To ensure Comelit products are used safely: carefully observe the indications provided in the manuals / instruction sheets and make sure the system created using Comelit products has not been tampered with / damaged.
- Comelit products do not require maintenance aside from routine cleaning, which should be carried out in accordance with the indications provided in the manuals / instruction sheets. Any repair work must be carried out: for the products themselves, exclusively by Comelit Group S.p.A., for systems, by qualified technical personnel.
- Comelit Group S.p.A. does not assume any responsibility for: any usage other than the intended use; non-observance of the indications and warnings contained in this manual / instruction sheet. Comelit Group S.p.A. nonetheless reserves the right to change the information provided in this manual / instruction sheet at any time and without prior notice.

Technical Information

Power consumption	50 mA when idle, 100 mA when relay active
Operating temperature	–10°C to +55°C
Operating voltage	12V @ 24VAC or 12V at 33VDC
Dimensions	55 (h) x 85 (l) x 20 (d) mm
Coverage	50m in a free field (indicative)

Offset Aerial (Part number SK9014)

This antenna can be used to improve the range of the receivers and must be used when the receiver is located within a metal enclosure or is close to large metal structures.

1 Introduction

The SK9011/A unit is a radio frequency control unit to be used with radio transmitters SK9062B/A and SK9062Y/A, for the purposes of controlling access to a door fitted with an electronic lock or an automatic device.

The RF Unit connects to a PAC 500 series controller with 32-bit Wiegand output. PAC access control software will manage all access control requests.

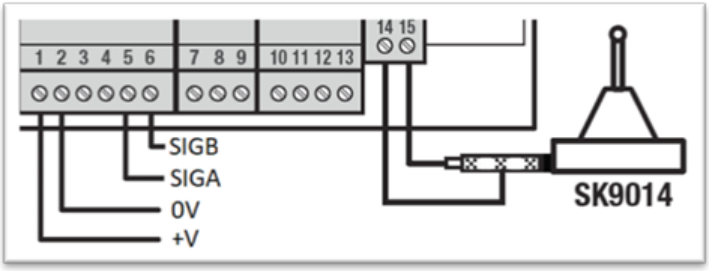
Assumptions

- SK9062B/A and SK9062Y/A are being activated on a known working system.
- Installers are experienced with installing and configuring PAC hardware and software.
- PAC hardware and software is supplied separately.
- PAC Access Central™ will be configured before use if needed.
- A PAC 500 Series Controller will be installed and commissioned where required.

2 Connect to PAC 500 Series Controller

To complete these steps you will need an easinet residential™ Pro licence

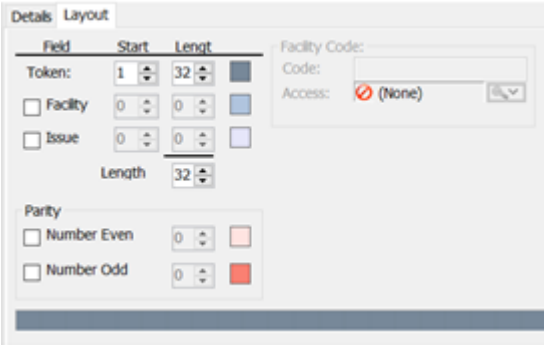
1. Connect the receiver to the 500 series controller as detailed in the image below.



The SK9014 antenna is an optional item that may be required when the transmit distance surpasses 4m (line of sight).

2. In the PAC software, set the 500 series controllers' reader channels to Wiegand.

3. Create a 32-bit template with no parity and displaying as Hexadecimal.



i. Click **Tools > Options > Card Format**.

ii. Click **Ok** to proceed.

iii. Select **Layout** tab and fill in the **Parity** and **Length** fields.

iv. Click OK to save the settings.

4. Perform a channel download to complete the set up and configuration.

5. Please use the online guide for additional information..

3 Add Transmitter to Software

You can add a transmitter to the PAC access control software as long as the transmitter and receiver have not been administered by the Comelit Simple Bus application:

- RF Access Control unit must be at factory default.
- Transmitter is unprogrammed.

To add the transmitter into the PAC access software, type the code printed on the back of the transmitter into a keyholder record as a 'OneProx(TM) Smart Card'.

The code can also be copied from the PAC Event Log with the following steps detailed below:

1. Ensure the default Wiegand (2601 format) is **inactive** in the PAC access software.
2. Open the PAC access software's Event Log.
3. Press the top-left button (single dot) on the transmitter.
   Only the button with one dot is active.

4. Copy the code generated in the Event Log to the key record.

With the transmitter code added to the software, the 32-bit format will be used to process a read.

Use Transmitter as RFID Proximity Credential

If the transmitter is to be used as a proximity credential with PAC GS3 MT readers, ensure the following dip switch settings are applied to the reader.

This function is only available in readers manufactured with V2.2.0 firmware or later.

If the transmitter is presented to a reader with firmware earlier than V2.2.0, the default Wiegand (2601 format) will generate a different number than the one generated as a remote activation.

This number will still allow access when added to a record but due to the translation process of the code, there is a risk of code duplication.

With no active Wiegand formats, no code is generated in the Event Log.

It may be possible to improve the signal read distance, depending on line of sight and local environment. Point the transmitter in the direction of the door to be accessed or directly at the RF Access Control unit.

4 System Reset

If the receiver has either been used previously on a Comelit Simple Bus installation or becomes unresponsive, follow the steps below to reset the unit. Existing transmitters will not need to be re-administrated.

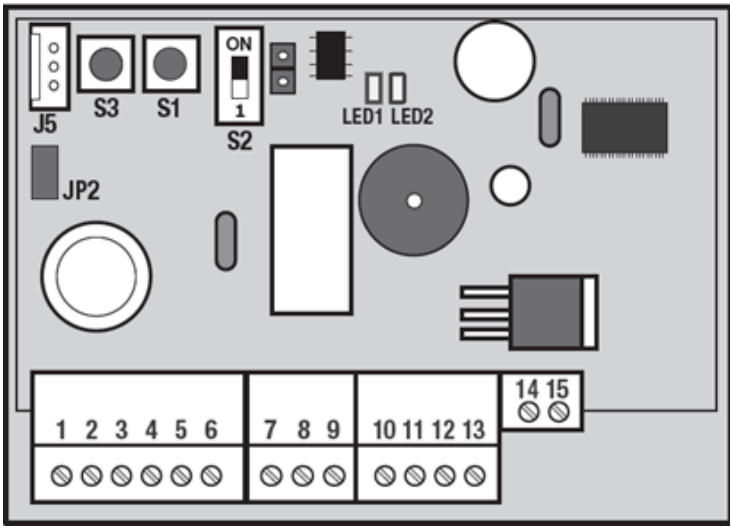
1. Place S2 in programming mode ‘ON’ (LED1 = fixed red)
2. Keep S1 pressed down for 15 seconds, LED1 will go out.
3. When LED1 comes back on again, the reset is complete.
4. Toggling back to operating mode (Position 1).

5 PCB Layout

- S2: For PAC the S2 switch is only needed if a reset is required.
  - S2 in position 1: Operating mode
  - S2 in position ON: Programming mode (Only required by PAC if a reset is needed).
- S1 & S3 (Not required for PAC controller connection).
- LED1 & LED2 show the statuses of the unit.
  - In programming mode, the LED1 is fixed red, and in operating mode it is flashing red.When toggled from one mode to the other, the unit emits a double beep.
  - LED2 should be a static green.
- JP2 & J5 (Not required for PAC controller connection)

Descripton of terminals on next page.

Description of terminals



Key to description of terminals

1-2	Power supply 12-24 VAC or 12-33 VDC
3-4	RS485 network (Not required for PAC controller connection)
5-6	Wiegand output 5: D0 and 6: D1
7-8-9	Relay output C/NC/NO (Not required for PAC controller connection)
10	RTE button (Not required for PAC controller connection)
11	Not used
12	Not used
13	0V (Not required for PAC controller connection)
14-15	Antenna