



Scan Keypad Reader

Impro (SKR) Scan Keypad Reader 125 kHz Antenna Reader with Keypad INSTALLATION MANUAL

SPECIFICATIONS

Working Environment	Designed to work in an indoor or outdoor environment similar to IP54, the SKR is resistant to water.
Keypad	12 Alphanumeric keys
Security	AES Encryption over S-Bus
Status Indicators	
Status LED	Bi-coloured Red or Green
Buzzer	Single tone, 4 kHz

INSTALLATION INFORMATION

Accessories

Find the following when unpacking the Antenna Reader:

- An Impro (SKR) Scan Keypad Reader housed in a Black, ABS Plastic Housing. The SKR consists of the Front Cover Antenna Reader Assembly and a Backing Cover, with a 6mm, M3, self-tapping screw.
- An extra Serial Number Label.

General

Remember the following when installing the Antenna Reader:

Maximum Reading Range

The passive read range limit varies from 25 mm to 76 mm (1 in to 3 in) depending on the installation environment and the Tag used.

Maximum S-Bus Wiring Distance

The maximum cable distance between the UniScan/FlexiScan controller and the SKR is 150m (492 ft).

Cable Specifications

A good quality multicore cable with conductor areas no less than 0.21 mm² (24 AWG).

NOTE: *When powering more S-Bus Devices via a shared cable, the cable conductors must be thick enough for the increase in current. Screened cable is recommended for electrically noisy installation sites – and to reduce the chances of damage due to NEARBY lightning* strikes.*

The UniScan/FlexiScan Controller Installation Manuals contain a section “S-Bus Cabling Considerations” to assist in power cable sharing and earthing of screened cables.

NOTE: **Impro Technologies does NOT claim to produce lightning proof products. Nothing can survive a direct lightning strike.*

Distance between SKRs

To avoid mutual interference, install SKRs no closer than 500 mm (20 in) to other SKRs – and other tag readers.

Relay Channel Mapping

This is not necessary when using the SKR with the Impro UniScan Controller (HCM990-0-0-GB-XX), as this has only one channel and the SKR will automatically map to that channel.

If the SKR is to be used with the Impro FlexiScan (HCM991-0-0-GB-XX), it is necessary to SELECT which of the four relay outputs is to be mapped to the SKR. On the SKR PCB there is a set of four DIP-Switches. Set the switch corresponding to the required relay channel to “ON” and the remaining three to “OFF”.

It is possible to wire more than one SKR (in “parallel”) to the same FlexiScan, with each SKR mapped to a different relay channel, should this be required.

Mounting the SKR

CAUTION: **Mounting the SKR against a metal surface can reduce the maximum tag reading distance.**

Select the mounting position of the SKR, considering accessibility, routing of wires and visibility of the Status LED.

Secure the SKR Backing Cover to the mounting surface (with the perpendicular screw lug protruding from the LOWER end), using suitable screws and wall plugs, nuts and bolts, rivets or double-sided adhesive tape.

Connecting the SKR

CAUTION: The SKR only connects to the UniScan or FlexiScan Controllers. The SKR will NOT operate with the SuperGate Controllers or the IXP20, the IXP220, the (TT) Twin Antenna Terminal, the (ITT) Intelligent Twin Antenna Terminal, or the (Mft) Multi-function Terminal.

NOTE: On powering up, the SKR will produce a beep sound and the Status LED will illuminate continuous Red.

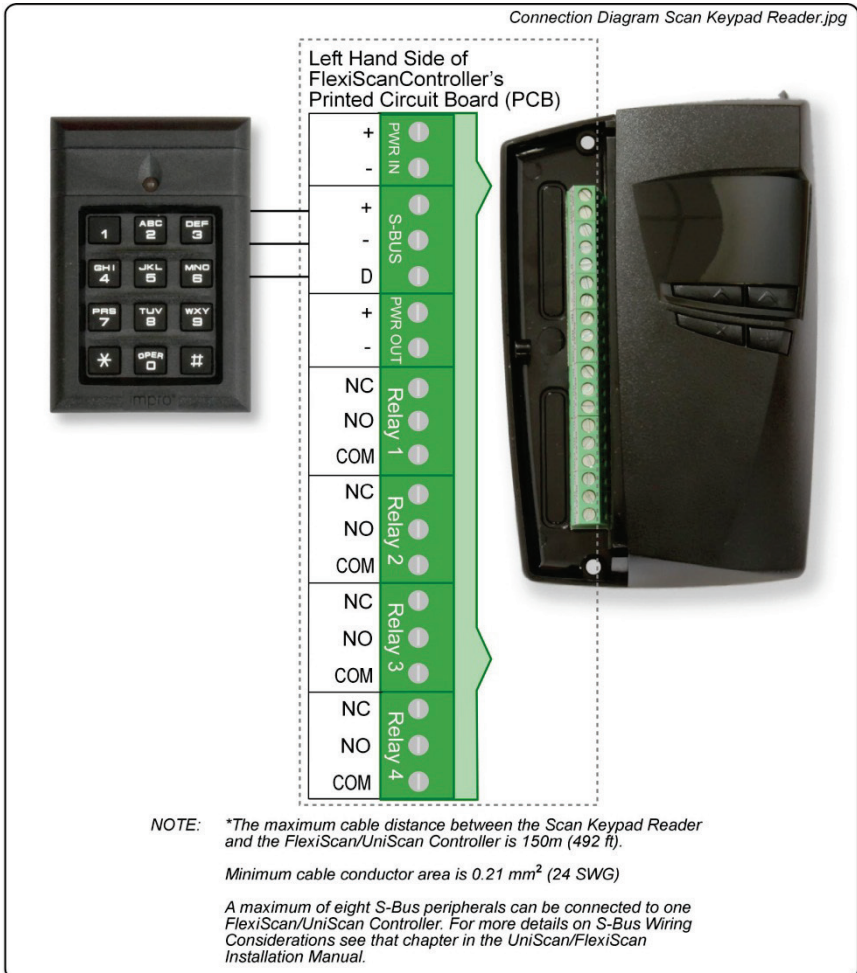


Figure 1: Typical SKR Electrical Connections, “+”, “-” and “D” are clearly labelled

Closing the SKR

Once the three wires have been connected to the screw terminals, the TOP of the Antenna Reader Assembly is hooked into the TOP of the Backing Cover, and then then the BOTTOM of the Antenna Reader Assembly is pushed down into position. A 6 mm, M3, self-tapping screw is then fastened upward through the tag at the BOTTOM of the SKR, securing the unit to the Backing Cover

Operating the SKR

The SKR can read tags presented to it (held up to the keypad) and users may enter PIN codes via the keypad.

The system operating instructions are included in the Installation Manual for the Impro Controller being used.

For the Impro UniScan Controller (1 Channel) consult Manual HCM300-0-0-GB-XX

For the Impro FlexiScan Controller (4 Channels) consult Manual HCM301-0-0-GB-XX

GUARANTEE OR WARRANTY

This product conforms to our Guarantee or Warranty details placed on our Web Site, to read further please go to www.impro.net.



This manual is applicable to the Impro (SKR)
Scan Keypad Reader HRK990-1-0-GB-02

(The last two digits of the Impro stock code indicate the issue status of the product).

HRK300-0-0-GB-01

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