

readID™ Prox SE 0994 PRX

USB Reader for EM 4102, TK 4100 and compatible 125 kHz transponders using ASK and Manchester encoding



Functional description

Design for easy registration RFID cards in access control software. The card reader interface connects to a pc via USB (2.0) and the required driver is automatically loaded (Windows, MAC OS & Linux).

When presenting an EM 4102 card or tag to the readID™ Prox card reader the card data is transferred to pc as keyboard data.

This allows for integration with existing software where card data usually is being typed into the system.

Product versions:

SE 0994 PRX	readID™ Prox
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CARD TECHNOLOGY	DATA TYPES	DATA	DATA FORMAT
EM 4102	UID/CSN	40 Bit	26, 32, 40 Bit Hex/Dec/Rev
TK 4100	UID/CSN	40 Bit	26, 32, 40 Bit Hex/Dec/Rev

The custom format allows for verification of valid data received on bit length and selecting part of the card number by use of offset and data length. Output data can be formatted as decimal or hexadecimal and can be truncated – Please see the user manual for the SBR 0814 / 0904 / 0952 / 0962 / 0993 product family.

How to order

When ordering a card reader please specify: product number & configuration in the following manor:

Product	SE 0994 PRX	readID™ Prox
Configuration	SE 0994 SFN	Format ID: xx, CR = On / Off

Selecting data format

The firmware in the readID™ Prox card reader allows for multiple output formats in order to match the card data presentation in the receiving system.

The chip serial number of an EM Prox card or tag is stored in binary format but is often displayed in decimal format. To allow easy integration the most commonly used formats have been implemented in the standard firmware.

Each format has 2 selectable options, one for enabling 'Enter/CR' as end of transmission character and one for enabling format specific options like padding (#xxx...xxx#).

On site configuration requires seucu software, which is freely downloadable from www.securityengineering.dk

The current format list is available on the website.

Audio & visual indication

The readID™ Prox card reader is equipped with a buzzer for acoustic indication and a multicolor LED for visual indication.

At connection of the unit to the USB port the LED sequence **red -> yellow -> green** indicates correct initialization.

Transmission of data is indicated with a green flash and activation of the buzzer output.

Errors in the card data is indicated with a double red flash and activation of the buzzer output.

Firmware

The USB reader can be firmware updated in field using the seufu.exe utility, which is freely downloadable from www.securityengineering.dk.

Standard firmware supports USB HID - Human Interface Device class with keyboard emulation.

Alternative firmware is available with USB CDC – Communication Device Class for COM-port emulation.

Data

Dimensions	70 x 50 x 20 mm (L x W x H)
Color	Black
Connection	USB A Connector on fixed cable – USB 2.0 interface
Cable	Fixed mount / 1,8 m / Black
Commodity code	8471
Country of Origin	DK
ECCN code (US)	N
Export list number (EU)	N