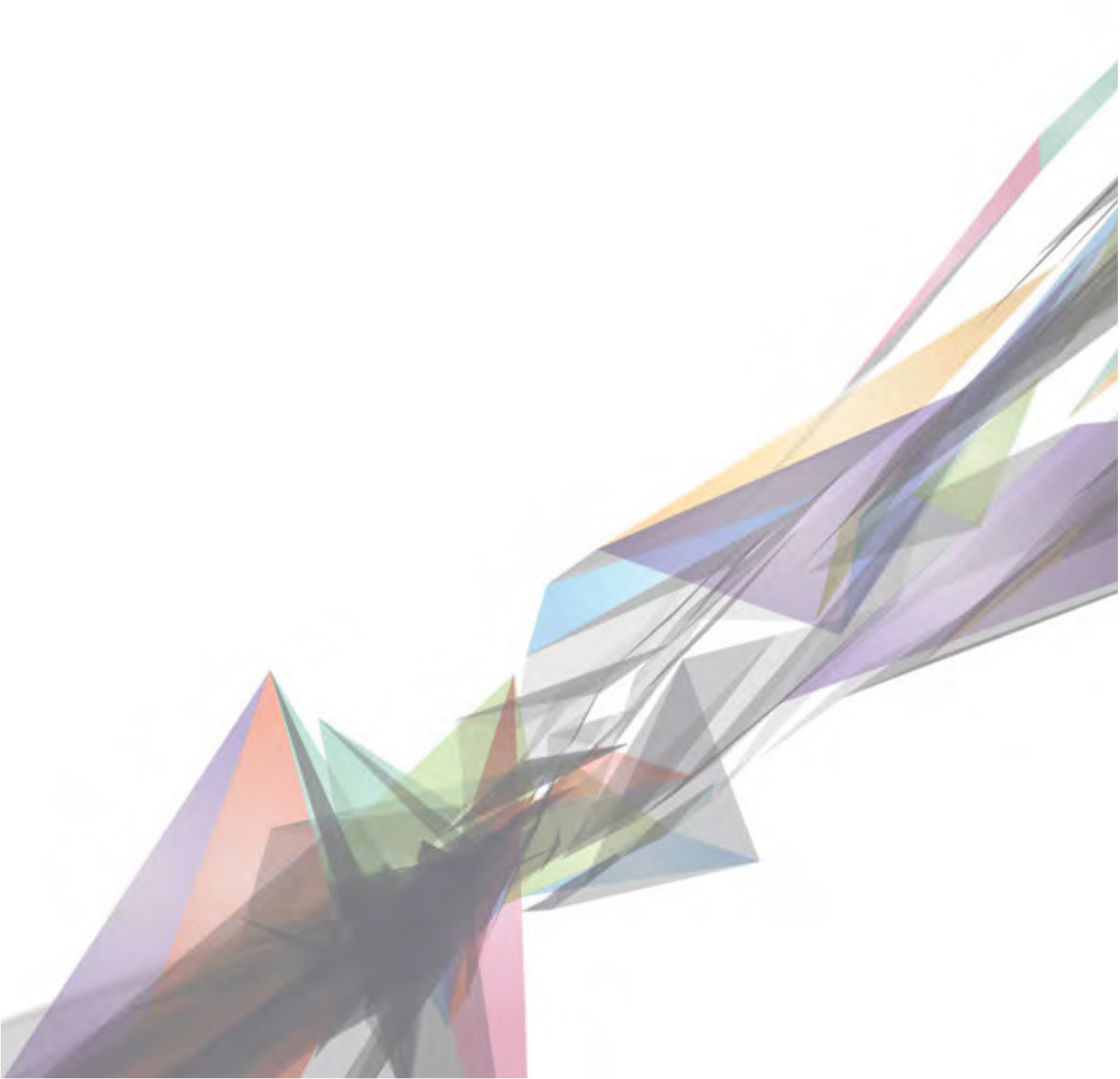
Proximity Card Reader with USB Interface

Protocol

velleman® projects

Velleman® nv has been an important wholesaler and developer of electronics for over 36 years. Our warehouses contain more than 18 000 different products of 50 brands. The distribution network includes more than 1700 distributors in well over 85 countries. Velleman® nv has built up an excellent service reputation towards retailers. To meet the ever increasing growth, Velleman® nv expanded with new offices and showrooms as well as a new warehouse of 35 000m³ equipped with the latest in order picking technology. This represents an investment of over € 5 500 000.

Contents



The K8019 communicates in bytes, not with text, don't use telnet

A packet looks like this:

<42> = always 42 hex
<??> = size (in bytes) of the entire packet
<??> = command byte
<ff> = always ff hex
<??>...<??> = optional extra data

NOTE: <42> is the hexadecimal number 42, contained in 1 byte

Card swipe event

receive: card swiped
<42><09><07><ff><??><??><??><??><??> (= tag of 5 bytes)

Reading all cards

send: read database
<42><04><02><ff>
receive: transfer started
<42><05><03><ff><??>(= index of master card)
receive: card
<42><04><04><ff><??><??><??><??><??> (= tag of 5 bytes)
receive: transfer complete
<42><04><05><ff>

Adding a single card

send: add card
<42><09><07><ff><??><??><??><??><??> (= tag of 5 bytes)

Clearing the database and adding multiple cards

send: start database update
<42><05><06><ff><??>(=index of master card)
send: card (repeat for each card)
<42><09><07><ff><??><??><??><??><??> (= tag of 5 bytes)
receive: card added (for each card)
<42><04><08><ff>
send: end database update
<42><04><09><ff>

NOTE:

PROXIMITY CARD READER WITH USB INTERFACE

K8019

Features

- store up to 250 tags
- with USB interface for config-management
- free tag management application for PC
- fully documented protocol, write your own application
- tags can also be entered using a 'mastercard'
- toggle or pulse NO/NC relay output
- adjustable pulse time: 1s to 4 min. approx.
- 3 status leds and buzzer
- two tags supplied (card-type)
- works standalone
- optional acces card HAA2866/TAG

Specifications

- EM4100 compatible: HAA2866/TAG, HAA2866/TAG2
- relay contact: 3A/24VDC
- power supply: 12VDC or 5VDC (USB)*
- power consumption: 100mA max.
- dimensions: 69x80x47mm / 2.71x3.15x1.85"

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