Jantar

Produktbrochure

Freund
Elektronik

Simple standalone access controllers – LOKUS

| **Lokus A-1** | **Lokus O-1** | **Lokus K-1** | **Lokus D-1** |

- Economy standalone controllers with built-in contactless cards reader, with keypad for entering numerical codes (Lokus K only)
- For very basic access control solution - for users who want to replace the traditional keys with electronic identification means (contactless cards, key fobs, bracelets) or a numerical code and do not require computer supported advanced access control
- Designed for both private and residential buildings, hotel rooms, offices, shops and garages, for opening barriers, lift doors, switching on/off alarm systems, etc.
- Suitable for mounting outdoors
- In various operation modes, Lokus allows access for up to 70 users (1 master + 69 users)
- The entire set-up procedure can be carried out with a master card or master code
- The device signals its current operation mode with LED and buzzer
- Possible conversion to an advanced reader with 26-bit Wiegand output in case upgrade to an advanced access control is needed (by this longer reading distance (up to 20cm) in comparison with standard readers can be achieved)

TECHNICAL DATA
- **Dimensions:**
  - **120x95x15mm (Lokus A)**
  - **58x120x15mm (Lokus O)**
  - **58x120x18mm (Lokus K)**
  - **64x10mm (Lokus D)**
- **Reading frequency: 125kHz**
- **Reading range: from 10 to 20cm**
- **IP65 protection**
- **External power supply 9 to 14V DC (Spider W5, Spider W40)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Operating temperature: from -20°C to +70°C**
- **Max. current consumption 60mA**
- **LED and buzzer for door status signalization**

ORDERING CODES

Code	Specification
LOKUS A-1	Lokus in **A** box, 125kHz
LOKUS O-1	Lokus **O** box, 125kHz
LOKUS K-1	Lokus with keypad in **K** box, 125kHz
LOKUS D-1	Lokus **D** box, 125kHz

Lokus A and O - with 6x0,22 alarm cable (3m)
Lokus K and D - with 6 wires flat cable (25cm)

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Simple standalone RF receiver – LOKUS A-4

Lokus A-4 with RF transmitter REMO

- Standalone access controller with built-in receiver for RF transmitters Remo
- For very basic and price oriented access control solutions - no access control software is necessary for setup
- Designed mostly for private parking places and garages
- Lokus A-4 can be used for opening barriers, garage doors, switching on/off alarm systems, etc.
- Set-up and programming with master Remo transmitter
- Receiving distance: 50m
- The electrical circuit of the Lokus A-4 is poured with epoxy resin which protects it from moisture; this is why it is suitable for mounting outdoors
- For up to 34 transmitters (1 master + 33 users)*****
- Possible conversion to an advanced receiver with 26-bit Wiegand output in case upgrade to an advanced access control is needed

* Each button on the receiver Remo is treated as a separate ID device!

TECHNICAL DATA
- **Dimensions: 120x95x15mm**
- **Reading frequency: 433MHz**
- **Receiving range: up to 50m**
- **IP65 protection**
- **External power supply 9 to 14V DC (Spider W5, Spider W40)**
- **Push button and gate status switch inputs**
- **Transistor output (500mA)**
- **Operating temperature: from -20°C to +70°C**
- **Max. current consumption 60mA**
- **LED and buzzer for gate status signalization**

ORDERING CODES

Code	Specification
LOKUS A-4	Lokus A-4 in **A** box, 433MHz
REMO E-V9	RF transmitter in E box, 433MHz

Lokus A-4 - with 6x0,22 alarm cable (3m)

Standalone access controllers – REX A/O/K

(125 kHz)

Rex A-1 **Rex O-1** **Rex K-1**

- Standalone controllers with built-in contactless cards reader (Rex A,O, K) and a keypad for entering numerical codes (Rex K)
- Real time clock and RS-485 communication
- For small, price oriented access control systems
- Designed for both private and residential buildings, hotel rooms, offices, shops and garages, etc.
- For opening doors, barriers, gates, lifts, for switching on/off alarm systems, etc.
- Suitable for mounting outdoors
- Internal memory for 500 users / 10.000 events
- Anti-tamper alarm
- In standalone mode set-up can be made with a master card or master code, in advanced mode access control software (Blocker, Codeks) must be used
- Optional conversion to an advanced reader with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions:**
    - **120x96x15mm (Rex A)**
    - **58x120x15mm (Rex O)**
    - **58x120x18mm (Rex K)**
- **Reading frequency: 125kHz**
- **Reading range: from 10 to 13cm**
- **Internal memory for 500 users/ 10.000 events**
- **IP65 protection**
- **External power supply 9 to 14V DC (Spider W5, Spider W5-USB/NET, Spider W40/W40-NET)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20°C to +70°C**
- **Current consumption: up to 90mA**
- **LED and buzzer for door status signalization**

ORDERING CODES

Code	Specification
REX A-1-9	Rex in **A** box, 125kHz
REX O-1-9	Rex **O** box, 125kHz
REX K-1-9	Rex with keypad in **K** box, 125kHz

Rex A and O - with 8x0,22 alarm cable (3m)
Rex K - with 8 wires flat cable (25cm)

Standalone access controllers – REX A/O/K

(13,56MHz)

Rex A-3   **Rex O-3**   **Rex K-3**

- Standalone controllers with built-in contactless cards reader (Rex A,O, K) and a keypad for entering numerical codes (Rex K)
- Real time clock and RS-485 communication
- For small, price oriented access control systems
- Designed for both private and residential buildings, hotel rooms, offices, shops and garages, etc.
- For opening doors, barriers, gates, lifts, for switching on/off alarm systems, etc.
- Suitable for mounting outdoors
- Internal memory for 500 users / 10.000 events
- Anti-tamper alarm
- In standalone mode set-up can be made with a master card or master code, in advanced mode access control software (Blocker, Codeks) must be used
- Optional conversion to an advanced reader with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA

- **Dimensions:**
    - **120x96x15mm (Rex A)**
    - **58x120x15mm (Rex O)**
    - **58x120x18mm (Rex K)**
- **Reading frequency: 13,56MHz**
- **Reading range: up to 7cm**
- **Internal memory for 500 users/ 10.000 events**
- **IP65 protection**
- **External power supply 9 to 14V DC (Spider W5, Spider W5-USB/NET, Spider W40/W40-NET)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20°C to +70°C**
- **Current consumption: up to 90mA**
- **LED and buzzer for door status signalization**

ORDERING CODES

Code	Specification
REX A-3-9	Rex in **A** box, 13,56MHz
REX O-3-9	Rex **O** box, 13,56MHz
REX K-3-9	Rex with keypad in **K** box, 13,56MHz

Rex A and O - with 8x0,22 alarm cable (3m)
Rex K - with 8 wires flat cable (25cm)

Standalone RF receiver – REX A-4

Rex A-4 with RF transmitter REMO

- Standalone access controller with built–in receiver for RF transmitters Remo
- Real time clock and RS-485 communication
- For small and price oriented access control systems
- Designed for both private and public parkings, garages, etc.
- For opening gates, barriers, garage doors, for switching on/off alarm systems, etc.
- Suitable for mounting outdoors
- Internal memory for up to 500 ID devices***** /10.000 events
- Anti-tamper alarm
- In standalone mode set-up can be made with a master transmitter, in advanced mode access control software (Blocker, Codeks) must be used
- Possible conversion to an advanced receiver with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions: 120x95x15mm**
- **Reading frequency: 433MHz**
- **Receiving range: up to 50m**
- **IP65 protection**
- **Internal memory for 500 ID devices*/ 10.000 events**
- **External power supply 9 to 14V DC (Spider W5, Spider W5-USB/NET, Spider W40/W40-NET)**
- **Push button and gate status inputs**
- **Built-in accelerometer (anti-tamper alarm)**
- **Transistor output (500mA)**
- **Max. current consumption 80mA**
- **Operating temperature: from -20°C to +70°C**
- **LED and buzzer for gate status signalization**

* Each button of the transmitter Remo is treated as a separate ID device!

ORDERING CODES

Code	Specification
REX A-4-9	Rex A-4 in **A** box, 433MHz
REMO E-V9	RF transmitter in E box, 433MHz

Rex A-4 - with 8x0,22 alarm cable (3m)

Standalone fingerprint reader – REX F

Rex F

- Standalone controller with built-in fingerprint reader and (optional) proximity cards reader (125kHz or 13,56MHz)
- Real Time Clock and RS-485 communication
- For private or small biometry based access control systems
- Designed for private and residential buildings, offices, shops, garages, clubs, etc.
- For unlocking or opening of the entrance doors, offices, server rooms, lift doors, for switching on/off alarm systems, etc.
- Suitable also for mounting outdoors (please note, it must not be exposed to the rain directly!)
- For up to 500 fingerprint templates / 10.000 events
- Anti-tamper alarm
- In standalone mode set-up can be made with a master finger print, in advanced mode access control software must be used
- Optional conversion to an advanced finger print reader with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions: 58x120x17mm**
- **Capacitive sensor**
- **More than 1 million wear cycles**
- **Optional 125kHz or 13,56MHz contactless cards reader**
- **Reading range for contactless cards: from 7cm (F-3-9) to 10cm (F-1-9)**
- **IP61 protection**
- **Internal memory for up to 500 fingerprint templates / 10.000 events**
- **External power supply 9 to 14V DC (Spider W5, Spider W5-USB/NET, Spider W40/W40-NET)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Max. current consumption: 50mA (F-0-9)/ 60mA (F-1-9) / 90mA (F-3-9)**
- **Operating temperature: from -20°C to +60°C**
- **LED and buzzer for door status signalization**

ORDERING CODES

Code	Specification
REX F-0-9	Rex in **F** box, fingerprint reader
REX F-1-9	Rex in **F** box, fingerprint reader + integrated contactless card reader (125kHz)
REX F-3-9	Rex in **F** box, fingerprint reader + integrated contactless card reader (13,56MHz)

Rex F - with 8x0,22 alarm cable (3m)

Multipurpose controller with OLED display
REX R-1 (125kHz)

Rex R-1

- Controller with built-in contactless cards reader, 4x4 keypad with illuminated buttons and backlit 4x20 OLED display
- Real time clock and RS-485 communication
- Rex R can be used as access controller, time & attendance controller, human interface or electronic purse
- For residential and business buildings, hotel rooms, offices, R&D facilities, server rooms, shops, fitness clubs, etc.
- The electrical circuit of the Rex R is poured with epoxy resin which protects it from moisture (if mounted outdoors, it must not be exposed to the rain directly!)
- Internal memory for 500 users / 10.000 events
- Anti-tamper alarm
- In standalone mode set-up can be made with a master card or master code, in advanced mode access control software (Blocker, Codeks) must be used
- Possible conversion to an advanced reader with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions: 90x133x19mm**
- **Reading frequency: 125kHz**
- **Reading range: up to 10cm**
- **Backlit OLED screen 4x20 and 4x4 keypad**
- **RS485 communication**
- **RTC (Real Time Clock) with battery back-up (max. 10 hours)**
- **500 users and 10.000 events buffer**
- **IP54 protection**
- **External power supply 9 to 14V DC (Spider W5, Spider W5-USB/NET, Spider W40/W40-NET)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20°C to +60°C**
- **Current consumption: up to 90mA**
- **Color changing buttons (↵ and ✋) and buzzer for door status signalization**

ORDERING CODES

Code	Specification
REX R-1-9	Rex R-1 in **R** box, 125kHz

Rex R-1 - with 8 wires flat cable (25cm)

Multipurpose controller with OLED display
REX R-3 (13,56MHz)

Rex R-3

- Controller with built-in contactless cards reader, 4x4 keypad with illuminated buttons and backlit 4x20 OLED display
- Real time clock and RS-485 communication
- Rex R can be used as access controller, time & attendance controller, human interface or electronic purse
- For residential and business buildings, hotel rooms, offices, R&D facilities, server rooms, shops, fitness clubs, etc.
- The electrical circuit of the Rex R is poured with epoxy resin which protects it from moisture (if mounted outdoors, it must not be exposed to the rain directly!)
- Internal memory for 500 users / 10.000 events
- Anti-tamper alarm
- In standalone mode set-up can be made with a master card or master code, in advanced mode access control software (Blocker, Codeks) must be used
- Possible conversion to an advanced reader with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions: 90x133x19mm**
- **Reading frequency: 13,56MHz**
- **Reading range: up to 7cm**
- **Backlit OLED screen 4x20 and 4x4 keypad**
- **RS485 communication**
- **RTC (Real Time Clock) with battery back-up (max. 10 hours)**
- **500 users and 10.000 events buffer**
- **IP54 protection**
- **External power supply 9 to 14V DC (Spider W5, Spider W5-USB/NET, Spider W40/W40-NET)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20°C to +60°C**
- **Current consumption: up to 90mA**
- **Color changing buttons (↵ and ✋) and buzzer for door status signalization**

ORDERING CODES

Code	Specification
REX R-3-9	Rex R-3 in **R** box, 13,56MHz

Rex R-3 - with 8 wires flat cable (25cm)

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Readers with direct output (125kHz)

Reader A-1-D　　　　　　　　　**Reader O-1-D**

- Economy readers, available in three different casings, with or without keypad
- Direct (binary) output
- Reading frequency 125kHz
- For advanced access control systems with access controllers Populus P – readers are connected with access controllers, which hold the entire logic which allows safe operation of the access control system according with the instructions that they receive from the access control program
- Readers can be also used as external readers with time & attendance controllers Regis M/T
- Designed for business and government buildings, financial institutions, offices, server rooms, archives, warehouses, hospitals, shops, labs, etc.
- They can be used for opening doors, gates, barriers, lift doors, switching on/off alarm systems, etc.
- The electrical circuit of the reader is poured with epoxy resin which protects it from moisture; this is why it is suitable for mounting outdoors
- Reader signals its current operation mode with LED and buzzer

TECHNICAL DATA
- **Dimensions:**
  - **120x95x15mm (Reader A)**
  - **58x120x15mm (Reader O)**
- **Reading frequency: 125kHz**
- **Reading range: from 10 to 12cm**
- **Output: direct (binary)**
- **IP65 protection**
- **External power supply 9 to 14V DC (Populus P, Regis T, Regis M)**
- **Operating temperature: from -20°C to +70°C**
- **Max. current consumption: 60mA**
- **LED and buzzer for door status signalization**
- **Max. cable length between reader and controller: 30m**

ORDERING CODES

Code	Specification
Reader A-1-D	125kHz reader with direct (binary) output in **A** box
Reader O-1-D	125kHz reader with direct (binary) output in **O** box

Reader A and O - with 6x0,22 alarm cable (3m)

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Readers with 26-bit Wiegand output
(125kHz and 13,56MHz)

Reader A-3-W   **Reader O-3-W**   **Reader K-x-W**

- Economy readers, available in three different casings, with or without keypad
- With 26-bit Wiegand output (reader with Wiegand output can be used also with access controllers of other manufacturers)
- Reading frequency 125kHz or 13,56MHz
- For advanced access control systems with access controllers Populus P – readers are connected with access controllers, which hold the entire logic which allows safe operation of the access control system according with the instructions that they receive from the access control program
- Readers can be also used as external readers with time&attendance controllers Regis M/T
- Designed for business and government buildings, financial institutions, offices, server rooms, archives, warehouses, hospitals, shops, labs, etc.
- They can be used for opening doors, gates, barriers, lift doors, switching on/off alarm systems, etc.
- The electrical circuit of the reader is poured with epoxy resin which protects it from moisture; this is why it is suitable for mounting outdoors
- Reader signals its current operation mode with LED and buzzer

TECHNICAL DATA
- **Dimensions:**
  - **120x95x15mm (Reader A)**
  - **58x120x15mm (Reader O)**
  - **58x120x18mm (Reader K)**
- **Reading frequency:**
  - **125kHz (Reader K-1-W)**
  - **13,56MHz (Reader x-3-W)**
- **Reading range:**
  - **10 – 12cm (125kHz)**
  - **up to 7cm (13,56MHz)**
- **Output: Wiegand 26-bit**
- **IP65 protection**
- **External power supply 9 to 14V DC (Populus P, Regis T, Regis M)**
- **Operating temperature: from -20°C to +70°C**
- **Max. current consumption: 60mA**
- **LED and buzzer for door status signalization**
- **Max. cable length between reader and controller: 30m (direct), 200m (Wiegand)**

ORDERING CODES

Code	Specification
Reader A-3-W	13,56MHz reader with 26-bit Wiegand output in **A** box
Reader O-3-W	13,56MHz reader with 26-bit Wiegand output in **O** box
Reader K-1-W	125kHz reader with a keypad and 26-bit Wiegand output in **K** box
Reader K-3-W	13,56MHz reader with a keypad and 26-bit Wiegand output in **K** box

Reader A and O - with 6x0,22 alarm cable (3m)
Reader K - with 6 wires flat cable (25cm)

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RF receiver Reader A-4   (433MHz)

Reader A-4-D with RF transmitter REMO

- Receiver for RF transmitters Remo
- Direct (binary) output
- Reading frequency 433MHz
- For advanced access control systems with access controllers Populus P – RF receiver is connected with access controller, which holds the entire logic which allows safe operation of the access control system according with the instructions that it receives from the access control program
- Receiving distance up to 50m
- Designed for both private or public parking places and garages
- Reader A-4-D can be used for opening barriers, gates, garage doors, switching on/off alarm systems, etc.
- The electrical circuit of the Reader A-4-D is poured with epoxy resin which protects it from moisture; this is why it is suitable for mounting outdoors

TECHNICAL DATA
- **Dimensions: 120x95x15mm**
- **Reading frequency: 433MHz**
- **Receiving range: up to 50m**
- **Output: direct (binary)**
- **IP65 protection**
- **External power supply 9 to 14V DC (Populus P)**
- **Operating temperature: from -20 to +70°C**
- **Max. current consumption 60mA**
- **LED and buzzer for gate status signalization**
- **Max. cable length between reader and controller: 30m**

ORDERING CODES

Code	Specification
READER A-4-D	Reader A-4 in **A** box, 433MHz
REMO E-V9	RF transmitter in E box, 433MHz

Reader A-4 - with 6x0,22 alarm cable (3m)

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Protocol readers (125kHz)

Reader A-1-3P **Reader O-1-3P** **Reader K-1-3P**

- Readers with protocol output, available in three different casings, with or without keypad
- Reading frequency 125kHz
- Encrypted communication between reader and controller
- For advanced access control systems with higher level of protection with access controllers Populus P or Trigger
- Designed for business and government buildings, R&D facilities, financial institutions, server rooms, archives, warehouses, hospitals, shops, labs, etc.
- The electrical circuit of the Reader is poured with epoxy resin which protects it from moisture; this is why it is suitable for mounting outdoors
- Reader signals its current operation mode with LED and buzzer

TECHNICAL DATA
- **Dimensions:**
  - **120x95x15mm (Reader A)**
  - **58x120x15mm (Reader O)**
  - **58x120x18mm (Reader K)**
- **Reading frequency: 125kHz**
- **Reading range: 10 to12cm**
- **Output: Jantar protocol**
- **IP65 protection**
- **External power supply 9 to 14V DC (Populus P, Trigger)**
- **Operating temperature: from -20°C to +70°C**
- **Max. current consumption: 85mA**
- **LED and buzzer for door status signalization**
- **Max. cable length between reader and controller: 300m**

ORDERING CODES

Code	Specification
Reader A-1-3P	125kHz protocol reader in **A** box
Reader O-1-3P	125kHz protocol reader in **O** box
Reader K-1-3P	125kHz protocol reader in **K** box

Reader A and O - with 6x0,22 alarm cable (3m)
Reader K - with 6 wires flat cable (25cm).

Protocol readers (13,56MHz)

Reader A-3-3P   **Reader O-3-3P**   **Reader K-3-3P**

- Reader with protocol output, available in three different casings, with or without keypad
- Reading frequency 13,56MHz (support for Mifare Classic and Desfire)
- For very advanced, highly protected access control systems with access controllers Populus P or Trigger
- 3PRO ready - compatible with 3P marked professional, high secure access control hardware
- For Mifare Classic and Mifare Desfire contactless cards C-3-M or C-3-D (with Jantar's encryption – optional)
- Designed for business and government buildings, R&D facilities, financial institutions, server rooms, archives, warehouses, hospitals, shops, labs, etc.
- The electrical circuit of the Reader is poured with epoxy resin which protects it from moisture; this is why it is suitable for mounting outdoors
- Reader signals its current operation mode with LED and buzzer

TECHNICAL DATA
- **Dimensions:**
  - **120x95x15mm (Reader A)**
  - **58x120x15mm (Reader O)**
  - **58x120x18mm (Reader K)**
- **Reading frequency: 13,56MHz (encrypted Mifare Classic and Desfire)**
- **Reading range: up to 7cm**
- **Output: Jantar protocol**
- **IP65 protection**
- **External power supply 9 to 14V DC (Populus P, Trigger)**
- **Operating temperature: from -20°C to +70°C**
- **Max. current consumption: 85mA**
- **LED and buzzer for door status signalization**
- **Max. cable length between reader and controller: 30m**

ORDERING CODES

Code	Specification
Reader A-3-3P	13,56MHz protocol reader in **A** box, 3Pro ready
Reader O-3-3P	13,56MHz protocol reader in **O** box, 3Pro ready
Reader K-3-3P	13,56MHz protocol reader in **K** box, 3Pro ready

Reader A and O - with 6x0,22 alarm cable (3m)
Reader K - with 6 wires flat cable (25cm).

Protocol RF receiver (433MHz)

RF receiver Reader A-4-3P

- RF receiver with protocol output for RF transmitters Remo E-V9
- Reading frequency 433MHz
- For very advanced, highly protected access control systems with access controllers Populus P or Trigger
- 3PRO ready - compatible with 3P marked professional, high secure access control hardware
- Designed for parking places, garages, car pools, etc.
- Reader A-4-3P can be used for opening barriers, gates, garage doors, switching on/off alarm systems, etc.
- Suitable for mounting outdoors
- Receiver signals its current operation status with LED and buzzer

TECHNICAL DATA

- **Dimensions: 120x95x15mm**
- **Reading frequency: 433MHz**
- **Receiving range: up to 50m**
- **Output: protocol**
- **IP65 protection**
- **External power supply 9 to 14V DC (Populus P, Trigger)**
- **Operating temperature: from -20°C to +70°C**
- **Max. current consumption 60mA**
- **LED and buzzer for gate status signalization**
- **Max. cable length between reader and controller: 30m**

ORDERING CODES

Code	Specification
READER A-4-3P	Protocol RF receiver Reader A-4 in **A** box, 433MHz
REMO E-V9	RF transmitter in E box, 433MHz

Reader A-4 - with 6x0,22 alarm cable (3m)

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Access controller Populus A

Populus A-1-NET   **Populus A-3-NET**

- Access controller with built-in contactless cards reader
- RS-485 and TCP/IP communication as standard
- Designed for fast and easy installation in private and residential buildings, hotel rooms, offices, shops and garages, etc.
- For opening doors, barriers, gates, lifts, for switching on/off alarm systems, etc.
- Suitable for mounting outdoors
- Internal memory for 30.000 users / 10.000 events
- Anti-tamper alarm
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions: 120x96x15mm**
- **Reading frequency: 125kHz (Populus A-1-NET) or 13,56MHz (Populus A-3-NET)**
- **Reading range: from 7cm (Populus A-1-NET) to 12cm (Populus A-3-NET)**
- **Internal memory for 30.000 users/ 100.000 events**
- **IP65 protection**
- **External power supply 9 to 14V DC (Spider W5, Spider W40)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20°C to +60°C**
- **Current consumption: up to 90mA**
- **LED and buzzer for door status signalization**

ORDERING CODES

Code	Specification
POPULUS A-1-NET	Access controller with RS-485 and TCP/IP communication in **A** box, built-in 125kHz contactless card reader
POPULUS A-3-NET	Access controller with RS-485 and TCP/IP communication in **A** box, built-in 13,56MHz contactless card reader

Access controller TRIGGER

Trigger C-2-3P-NET

- Access controllers for very advanced, highly protected access control systems
- For use with protocol Readers A/O/K-3-3P and A-4-3P only
- 3PRO ready - compatible with 3P marked professional, high secure access control hardware
- Designed for installation in government buildings, airports, banks, insurance companies, R&D facilities, offices, car pools, etc.
- Trigger can be used for unlocking door-strikes or electromagnetic locks, opening barriers or gates, lift doors, switching on/off alarm systems, triggering of other devices, etc.
- It is designed to provide power to the readers and door strikes or electromagnetic locks, attached onto it (built–in 40W power supply is sufficiently strong to power up to four protocol readers and two door strikes or two electromagnetic locks – 12V DC, max. 500mA) – enough for two doors both sides access control
- Internal memory for 30.000 users (expandable up to 100.000 users) and 100.000 events
- RS-485 and TCP/IP communication as standard
- Charging electronics for back-up battery (2,3Ah)

TECHNICAL DATA

- **2 doors both directions access controller - for up to 4 protocol readers + 2 door-strikes (12V DC, max. 300mA) or 2 electromagnetic locks (12V DC, max. 500mA)**
- **Dimensions: 180x180x80mm**
- **Operating voltage: 110-230V AC 50-60hz**
- **Output: 13,8V DC (40W, full time)**
- **Primary fuse: 250V 250mA**
- **IP21 protection**
- **RS-485 and TCP/IP communication**
- **Two door status and two push button inputs**
- **Two door strike transistor outputs (0,5A)**
- **Two relay outputs (5A)**
- **Max. power consumption up to 2W + load**
- **Operating temperature: from -20 to +40°C**
- **LED status notification**
- **Battery back-up (2,3Ah battery not included)**

ORDERING CODE

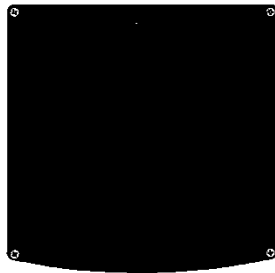| Code	Specification
TRIGGER C-2-3P-NET	Access controller with power supply (40W) and integrated RS-485 - TCP/IP communication converter, **for protocol readers only,** 3Pro ready

Access controllers POPULUS P

Populus P-3P

- Access controllers for advanced access control systems
- Controllers for 2 or 4 doors with additional 2 or 4 protocol reader(s) are available
- In case, only protocol readers are used in the system, extremely cost efficient upgrade from one direction to a both directions access control is possible
- 3PRO ready - compatible with 3P marked professional, high secure access control hardware
- Integrated 40W power supply is sufficiently strong to power up to 4 contactless card readers and 4 door strikes or 2 electromagnetic locks (12V DC, max. 500mA), connected onto the controller*
- Internal memory for 30.000 users (expandable to 100.000 users) and 100.000 events
- RS-485 communication, optional built-in TCP/IP communication converter (–NET models only), optional –NET-S models with Spider W5-NET functionality – they can be used as a RS-485/TCP/IP communication converter for multiple additional controllers, connected into RS-485 communication line
- Charging electronics for back-up battery

TECHNICAL DATA

- **Access controller for 2/4 readers (protocol, direct or Wiegand 26-bit output) + 2 /4 additional protocol readers + 2/4 door strikes or electromagnetic locks (max. 500mA)**
- **Dimension: 222 x 222 x 80mm**
- **Operating voltage: 110-230V AC 50-60hz**
- **IP21 protection**
- **RS-485 communication, optional built-in TCP/IP (-NET models only)**
- **Optional RS-485 /TCP/IP communication converter with Spider functionality (-NET-S models only)**
- **Door status and push button input for each reader (2/4)**
- **Transistor door strike output (500mA) for each doors (2/4)**
- **Additional 5A relay– it triggers together with door strike output**
- **Max. power consumption: up to 2W + load (up to 3W + load – NET models)**
- **Operating temperature: from -20°C to +40°C**
- **LED status notification**
- **Battery back-up (optional – 2,3Ah battery not included)**

ORDERING CODES

Code	Specification
POPULUS P-2-3P	Access controller for 2 doors, 3Pro ready
POPULUS P-2-3P-NET	Access controller for 2 doors, TCP/IP converter
POPULUS P-2-3P-NET-S	Access controller for 2 doors, TCP/IP converter, with Spider functionality
POPULUS P-4-3P	Access controller for 4 doors, 3Pro ready
POPULUS P-4-3P-NET	Access controller for 4 doors, TCP/IP converter
POPULUS P-4-3P-NET-S	Access controller for 4 doors, TCP/IP converter, with Spider functionality

In case, more than 4 readers and 2 electromagnetic locks are connected onto the controller, additional power supply (for instance Spider W40) must be used!

Controller with OLED display REGIS R-1   (125kHz)

Regis R-1-9

- Controller with built-in contactless cards reader, 4x4 keypad with illuminated buttons and backlit 4x20 OLED display
- Real time clock and RS-485 communication
- Rex R can be used as an access controller, time & attendance controller, human interface, … purse
- For residential and business buildings, hotel rooms, offices, R&D facilities, server rooms, shops, fitness clubs, etc.
- The electrical circuit of the Regis R is poured with epoxy resin which protects it from moisture (if mounted outdoors, it must not be exposed to the rain directly!)
- Internal memory for 30.000 users / 100.000 events
- Anti-tamper alarm
- Setup with access control software (Blocker, Codeks)
- Optional conversion into advanced contactless card reader with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions: 90x133x19mm**
- **Reading frequency: 125kHz**
- **Reading range: up to 10cm**
- **Backlit OLED screen 4x20 and 4x4 keypad**
- **RS485 communication**
- **FLASH memory for 30.000 users and 100.000 events**
- **IP54 protection**
- **External power supply 9 to 14V DC (Spider W5-USB/NET, Spider W40/W40-NET)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20°C to +60°C**
- **Current consumption: up to 130mA**
- **Color changing buttons (↵ and ✋) and buzzer for door status signalization**

ORDERING CODE

Code	Specification
REGIS R-1-9	Regis in **R** type box, 125kHz

Regis R-1 - with 8 wires flat cable (25cm)

Controller with OLED display REGIS R-3 (13,56MHz)

Regis R-3-9

- Controller with built-in contactless cards reader, 4x4 keypad with illuminated buttons and backlit 4x20 OLED display
- Real time clock and RS-485 communication
- Rex R can be used as an access controller, time & attendance controller, human interface, …
- For residential and business buildings, hotel rooms, offices, R&D facilities, server rooms, shops, fitness clubs, etc.
- 3PRO ready - compatible with 3P marked professional, high secure access control hardware
- The electrical circuit of the Regis R is poured with epoxy resin which protects it from moisture (if mounted outdoors, it must not be exposed to the rain directly!)
- Internal memory for 30.000 users / 100.000 events
- Anti-tamper alarm
- Setup with access control software (Blocker, Codeks)
- Optional conversion into advanced contactless card reader with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA

- **Dimensions: 90x133x19mm**
- **Reading frequency: 13,56MHz**
- **Reading range: up to 7cm**
- **Backlit OLED screen 4x20 and 4x4 keypad**
- **RS485 communication**
- **FLASH memory for 30.000 users and 100.000 events**
- **IP54 protection**
- **External power supply 9 to 14V DC (Spider W5-USB/NET, Spider W40/W40-NET)**
- **Door status and push button inputs**
- **Door strike transistor output (500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20°C to +60°C**
- **Current consumption: up to 160mA**
- **Color changing buttons (↵ and ♙) and buzzer for door status signalization**

ORDERING CODE

Code	Specification
REGIS R-3-9	Regis in **R** type box, 125kHz

Regis R-3 - with 8 wires flat cable (25cm)

Touch screen controller REGIS H   (125kHz)

Regis H-1

- Controller with built-in proximity cards reader and 4" LCD touch screen display
- Regis H can be used as an access controller, T&A controller, human interface, etc.
- Designed for residential and business buildings, offices, shops, hospitals, industry, R&D facilities, clubs, etc.
- Internal memory for 30.000 users (expandable to 100.000) / 100.000 events
- Built-in accelerometer (anti-tamper alarm)
- RS-485 and TCP/IP communication
- Push button and door status inputs, transistor output (500mA)
- Vertical (default) or horizontal installation*
- Configurable keypad with selectable colors of the buttons
- Possible conversion into advanced contactless cards reader with 26-bit Wiegand output
- OEM and SDK kit available

*Please specify when ordering!

TECHNICAL DATA

- **Dimensions: 85x126x19mm**
- **Reading frequency: 125kHz**
- **Reading range: up to 10cm**
- **IP21 protection**
- **Backlit 4,3" LCD touch screen (resistive)**
- **Resolution 480 x 270**
- **FLASH memory for 30.000 users (expandable to 100.000 users) / 100.000 events**
- **RS485 and TCP/IP communication as standard**
- **RTC (Real Time Clock) with battery back-up (max. 10 hours)**
- **External power supply 9 to 14V DC (Spider W5, Spider W40)**
- **Doors status and push button inputs**
- **Door strike output (transistor, 500mA)**
- **Built-in accelerometer as anti-tamper alarm**
- **Operating temperature: from -20 to +60°C**
- **Power consumption up to 3W (in ECO mode: 2W)**
- **Multi keypad layouts available**

ORDERING CODE

Code	Specification
REGIS H-1-9-NET	Regis in **H** box, 125kHz, RS-485 and TCP/IP communication, for vertical (default) or horizontal installation

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Touch screen controller REGIS H (13,56MHz)

3PRO ready

Regis H-3-9-NET

- Controller with built-in proximity card reader and 4,3" LCD touch screen display
- Regis H can be used as an access controller, T&A controller, human interface, etc.
- Designed for residential and business buildings, offices, shops, hospitals, industry, R&D facilities, clubs, etc.
- 3PRO ready - compatible with 3P marked professional, high secure access control hardware
- Internal memory for 30.000 users (expandable to 100.000) / 100.000 events
- Built-in accelerometer (anti-tamper protection)
- RS-485 and TCP/IP communication
- Push button and door status inputs, transistor output (500mA)
- Vertical or horizontal installation
- Configurable keypad (with Codeks Keypad editor)
- Optional conversion into advanced contactless card reader with 26-bit Wiegand output
- OEM and SDK kit available

TECHNICAL DATA

- **Dimensions: 85x126x19mm**
- **Reading frequency: 13,56MHz**
- **Reading range: up to 7cm**
- **IP21 protection**
- **Backlit 4,3" LCD touch screen (resistive)**
- **Resolution 480 x 270**
- **FLASH memory for 30.000 users (expandable to 100.000 users) / 100.000 events**
- **RS485 and TCP/IP communication as standard**
- **RTC (Real Time Clock) with battery back-up (max. 10 hours)**
- **External power supply 9 to 14V DC (Spider W5, Spider W40)**
- **Doors status and push button inputs**
- **Door strike output (transistor, 500mA)**
- **Built-in accelerometer as anti-tamper alarm**
- **Operating temperature: from -20 to +60°C**
- **Power consumption up to 3W (in ECO mode: 2W)**
- **Multi keypad layouts available**

ORDERING CODE

Code	Specification
REGIS H-3-9-NET	Regis in **H** type box, 13,56MHz, RS-485 and TCP/IP communication, for vertical (default) or horizontal installation

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Touch screen controller REGIS T (125kHz)

Regis T-1-9-NET

- Controller with built-in proximity cards reader and 7" LCD touch screen display
- Regis T can be used as an access controller, T&A controller, human interface, etc.
- Connector for external contactless card reader
- Designed for office buildings, financial institutions, hospitals, industry, R&D facilities, clubs, etc.
- Internal memory for 30.000 users (expandable to 100.000) / 120.000 events
- Built-in accelerometer (anti-tamper protection)
- RS-485 and TCP/IP communication, optional version with Spider functionality
- Push button and door status inputs, transistor output (500mA)
- Vertical or horizontal installation
- Configurable keypad (with Codeks Keypad editor)
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions: 210x150x35mm**
- **Reading frequency: 125kHz**
- **Reading range: up to 15cm**
- **IP 21 protection**
- **Backlit 7" LCD touch screen (capacitive)**
- **Resolution 800 x 480**
- **Multi keypad layouts available**
- **FLASH memory for 30.000 users (expandable to 100.000 users) / 100.000 events**
- **RS485 and TCP/IP communication, optional Spider functionality (NET-S model)**
- **RTC (real time clock) with battery back-up**
- **External power supply 9 to 14V DC (Spider W5, Spider W40)**
- **Door status and push button inputs**
- **Door strike output (transistor, 500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20 to +60°C**
- **Power consumption 3,6W (in ECO mode: 2,5W)**

ORDERING CODES

Code	Specification
REGIS T-1-9-NET	Regis in **T** type box, 125kHz, RS-485 and TCP/IP communication
REGIS T-1-9-NET-S	Regis in **T** type box, 125kHz, RS-485 and TCP/IP communication, Spider functionality (built in RS-485/TCP/IP communication converter)

Touch screen controller REGIS T (13,56MHz)

Regis T-3-9-NET

- Controller with built-in proximity cards reader and 7" LCD touch screen display
- Regis T can be used as an access controller, T&A controller, human interface, etc.
- Connector for external contactless card reader
- Designed for office buildings, financial institutions, hospitals, industry, R&D facilities, clubs, etc.
- 3PRO ready - compatible with 3P marked professional, high secure access control hardware
- Internal memory for 30.000 users (expandable to 100.000) / 120.000 events
- Built-in accelerometer (anti-tamper protection)
- RS-485 and TCP/IP communication, optional version with Spider functionality
- Push button and door status inputs, transistor output (500mA)
- Vertical or horizontal installation
- Configurable keypad (with Codeks Keypad editor)
- OEM and SDK kit available

TECHNICAL DATA
- **Dimensions: 210x150x35mm**
- **Reading frequency: 13,56MHz**
- **Reading range: up to 7cm**
- **IP 21 protection**
- **Backlit 7" LCD touch screen (capacitive)**
- **Resolution 800 x 480**
- **Multi keypad layouts available**
- **FLASH memory for 30.000 users (expandable to 100.000 users) / 100.000 events**
- **RS485 and TCP/IP communication, optional Spider functionality (NET-S model)**
- **RTC (real time clock) with battery back-up**
- **External power supply 9 to 14V DC (Spider W5, Spider W40)**
- **Door status and push button inputs**
- **Door strike output (transistor, 500mA)**
- **Built-in accelerometer (anti-tamper alarm)**
- **Operating temperature: from -20 to +60°C**
- **Power consumption 3,6W (in ECO mode: 2,5W)**

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Code	Specification
REGIS T-3-9-NET	Regis in **T** type box, 13,56MHz, RS-485 and TCP/IP communication
REGIS T-3-9-NET-S	Regis in **T** type box, 13,56MHz, RS-485 and TCP/IP communication, Spider functionality (built in RS-485/TCP/IP communication converter)

Touch screen controller REGIS M (13,56MHz)

Regis M-3-9-NET

- Controller with built-in proximity cards reader and 5" LCD touch screen display
- Regis M can be used as an access controller, T&A controller, human interface, …
- 3PRO ready - compatible with 3P marked professional, high secure access control hardware
- Connection cables for additional external reader
- Reading frequency 13,56MHz
- Internal memory for 30.000 users (expandable to 100.000) / 120.000 events, additional SD card (optional)
- RS-485 and TCP/IP communication as standard
- Push button and door status inputs, transistor output (500mA)
- Vertical or horizontal installation
- Configurable keypad (with Codeks Keypad editor)
- OEM and SDK kit available

TECHNICAL DATA

- **Dimensions: 140x97x16mm**
- **Reading frequency: 13,56MHz (Mifare Classic, Desfire)**
- **Reading range: up to 7cm**
- **IP21 protection**
- **Backlit 5" LCD touch screen (capacitive), resolution 800x480**
- **FLASH memory for 30.000 users (expandable to 100.000 users)/ 100.000 events**
- **RS485 and TCP/IP communication**
- **RTC (Real Time Clock) with battery back-up**
- **Additional external reader (optional)**
- **External power supply 9 to 14V DC (Spider W5, Spider W40)**
- **Door status and push button inputs**
- **Door strike output (transistor, 500mA)**
- **Built-in accelerometer (Anti-Tamper Alarm)**
- **Operating temperature: from -20 to +60°C**
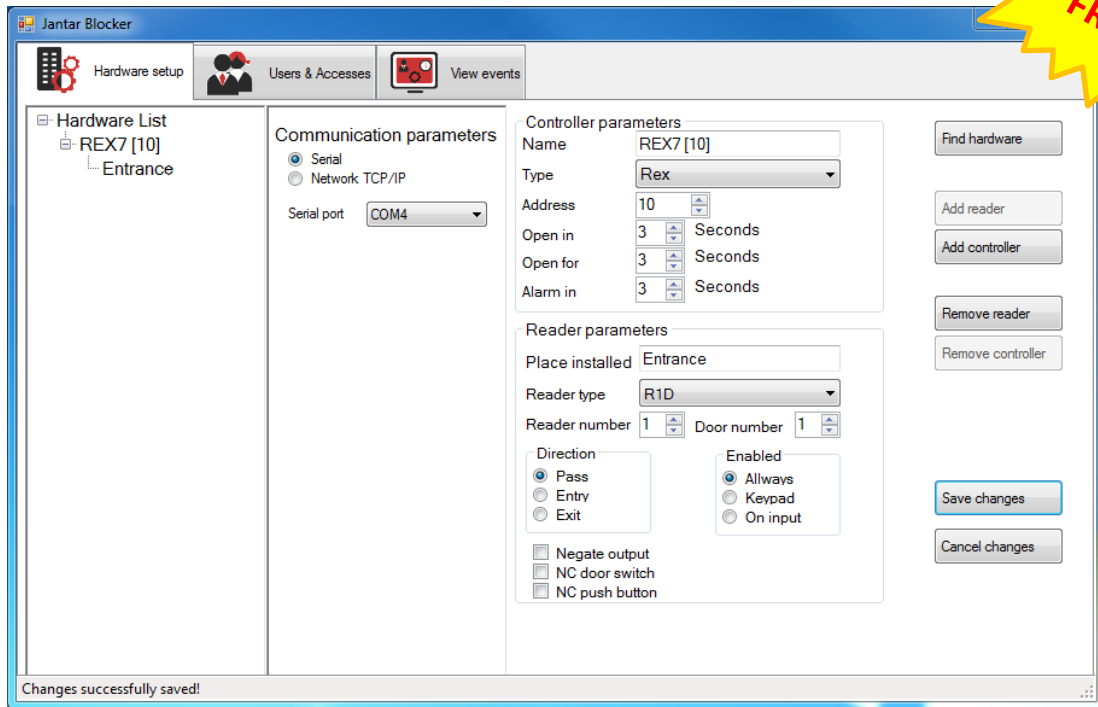- **Power consumption 3W (in ECO mode: less than 2W)**

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Code	Specification
REGIS M-3-9-NET	Regis in **M** type casing, built-in 13,56MHz reader, RS-485 and TCP/IP communication, for vertical (default) or horizontal installation

Basic access control software – BLOCKER

FREE!

Blocker

- For very basic, standalone controllers based access control solutions (for example: one or few Rex standalone controllers on the same location)
- Blocker was developed for the users, who don't need advanced settings – for instance private customers, security companies, installers or managers of the apartment or office buildings
- Simple and user friendly interface
- Blocker is mentioned for fast and easy set-up of the communication between controller(s) and computer and for setup of the controllers
- Easy assignment of the access rights and enrolment of user cards and PIN codes
- Events log
- Blocker supports not only standalone controllers from Rex family (with exception of fingerprint reader Rex F), but also advanced access controllers (Populus P, Regis), but with limited functionality

SYSTEM REQUIREMENTS
- **A PC running Windows XP or later**
- **A USB port or Ethernet (LAN) port for connection with hardware**
- **Display with at least 1280x1024 resolution**
- **Installed Microsoft .NET Framework 4.00 Extended (Client profile is not sufficient)**
- **Minimum 1GB RAM for Windows XP**
- **PDF Reader for reports**

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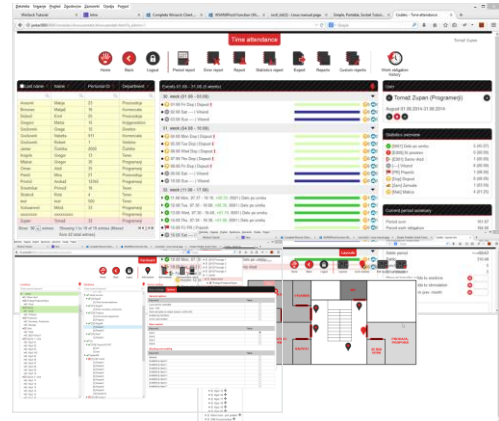| Code	Specification
BLOCKER	Basic access control software

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Advanced AC and T&A software – CODEKS

Codeks

- Powerful web based software for advanced access control and time & attendance systems
- Codeks integrates all our knowledge and more than 20 years of experience on the market
- Access to the application, installed on a server, through web browser (Internet Explorer, Firefox, Chrome, ..)
- Installation of any special software on user site is not necessary (no clients)
- Simple and user friendly interface
- Modular structure enables optional expansion with advanced software modules

SYSTEM REQUIREMENTS

- **A PC or server running Windows 7 or newer**
- **USB or Ethernet (LAN) ports for communication with hardware**
- **Monitor with min. resolution 1366x768, suggested resolution at least 1440x900**
- **Microsoft .NET Framework 4.00 Extended (Client profile is not enough!)**
- **More than 2GB RAM**
- **PDF Reader for reports**
- **Internet access**
- **Current version of internet browser (IE, Firefox, Chrome)**

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Code	Specification
CODEKS AC	Access control software, web based user interface (embedded database – SQLite)
CODEKS TA	Access control and time and attendance software for small to medium access control and time and attendance systems (embedded database – SQLite)
CODEKS TA + ADV DATABASE	Codeks AC / TA + configuration of the Codeks AC or Codeks TA software for use with advanced databases (MySQL, MS SQL, Oracle)
CODEKS TA-PRESENCE	Presence monitor- for quick overview of present or absent employees
CODEKS IP-CAM	Integration of IP cameras into access control system, snapshots of events are shown in program's monitor window, for fraud prevention in time and attendance
CODEKS TA-LEAVE	Announcement of absences and holidays of the employees
CODEKS TA-E-PERMIT	Electronic permit for business or private exits of the employees
CODEKS LAYOUTS	Graphical control center with floor plans, simple point & click access configuration
CODEKS FRONT DESK	Visitors management software
CODEKS KEYPAD	Keypad editing tool for touch screen controllers Regis
CODEKS VIRTUAL CARD	User license(s) for T&A events recording over PC, Android smart phone or tablet

Time & attendance kit TA-RC-USB / NET

Spider W5-USB

Spider W5-NET

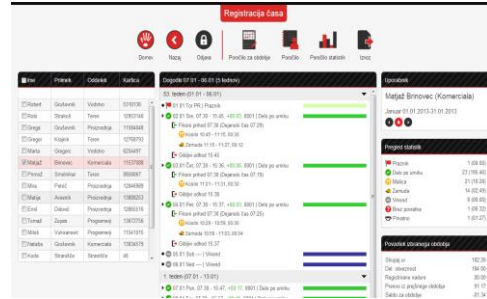**Rex R-1-Kit**

Program Codeks TA Kit

- Designed for small companies, that wish to set up an efficient time and attendance registration at a little cost
- Very simple and user friendly interface
- Kit TA-RC includes:
  - time and attendance controller **Rex R-1-Kit** with a built-in contactless card reader
  - **Spider W5-USB/NET** power supply with a communication converter for communication of a controller with the T&A program (USB, TCP/IP)
  - **10 contactless cards**
  - **Codeks TA Kit time and attendance software**
- Program Codeks TA Kit allows new employees' cards and data entry, the creation of timetables, reviewing of the recorded data, the correction of records, preparation of the reports and extracts by various criteria, the entry and changing of time intervals, etc.
- Employees can be assigned with a password and a user name to view their registered events and generate a report of the events
- If the employees are trusted, they are allowed to set their own times of arrivals and exits
- In the user editor, a report of the working hours for a specific period for each employee can be made
- Optional hardware expansion sets are available for the customers who would like to expand their time & attendance system with additional entry points on the same or on different locations

ORDERING CODES

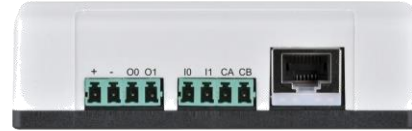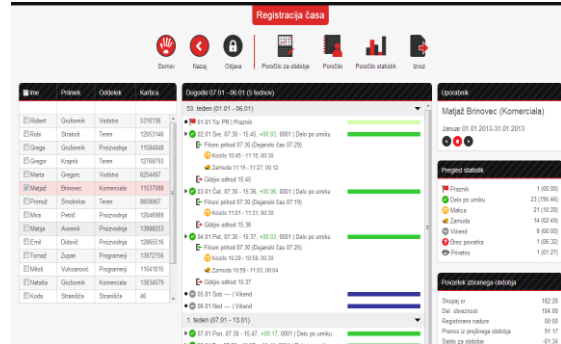| Code	Specification
KIT TA-RC-USB	T&A kit with RS-485/USB communication converter (T&A hardware is connected directly onto USB port of the computer), **for up to 40 employees**
KIT TA-RC-USB-EXP	T&A kit with RS-485/USB communication converter (T&A hardware is connected directly onto USB port of the computer), **for up to 100 employees**
KIT TA-RC-NET	T&A kit with RS-485/TCP/IP communication converter (T&A hardware communicates with the software over LAN/WAN), **for up to 40 employees**
KIT TA-RC-NET-EXP	T&A kit with RS-485/TCP/IP communication converter (T&A hardware communicates with the software over LAN/WAN), **for up to 100 employees**

Time & attendance expansion kit TA-R3

Expansion kit TA-R3

- Time and attendance expansion kit TA-R3 is designed for companies or institutions with more business or organizational units scattered at different locations wishing to establish a uniform time and attendance system at all locations
- The Kit TA03 includes all the hardware required for time and attendance registration for an individual location:
  - **Rex R-1-Kit** time and attendance controller
  - **Spider W5-NET** communication converter and power supply
- Unlike other Jantar's time and attendance kits, the Kit TA-R3 does not include software
- Operation of all T&A controllers in the system monitor programs Codeks TA Kit or Codeks TA

ORDERING CODE

Code	Specification
KIT TA-R3	T&A expansion kit with T&A controller **Rex R-1-Kit**

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Time& attendance kit TA-HC-USB / NET

Spider W5-USB

Spider W5-NET

Regis H-1-Kit

Program Codeks TA kit

- Designed for small companies, that wish to set up an efficient time and attendance registration at little cost
- Very simple and user friendly interface
- Kit TA-HC includes:
  - o time and attendance controller **Regis H-1-Kit** with a built-in contactless card reader
  - o **Spider W5-USB/NET** power supply with a communication converter for communication of a controller with the T&A program (USB, TCP/IP)
  - o **10 contactless cards**
  - o **Codeks TA Kit time and attendance software**
- Program Codeks TA Kit allows the entry of new employees' cards and employees' data, the creation of timetables, reviewing of the recorded data, the correction of records, preparation of the reports and extracts by various criteria, the entry and changing of time intervals, etc.
- Employees can be assigned with a password and a user name to view their registered events and generate a report of the events
- If the employees are trusted, they are allowed to set their own times of arrivals and exits
- In the user editor, a report of the working hours for a specific period for each employee can be made
- Optional hardware expansion sets are available for the customers who would like to expand their time & attendance system with additional entry points on the same or on different locations

ORDERING CODES

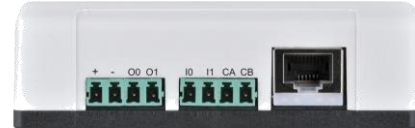| Code	Specification
KIT TA-HC-USB	T&A kit with RS-485/USB communication converter (T&A hardware is connected directly onto USB port of the computer), **for up to 40 employees**
KIT TA-HC-USB-EXP	T&A kit with RS-485/USB communication converter (T&A hardware is connected directly onto USB port of the computer), **for up to 100 employees**
KIT TA-HC-NET	T&A kit with RS-485/TCP/IP communication converter (T&A hardware communicates with the software over LAN/WAN), **for up to 40 employees**
KIT TA-HC-NET-EXP	T&A kit with RS-485/TCP/IP communication converter (T&A hardware communicates with the software over LAN/WAN), **for up to 100 employees**

Time & attendance expansion kit TA-H3

Expansion kit TA-H3

- Time and attendance expansion kit TA-H3 is designed for companies or institutions with more business or organizational units scattered at different locations wishing to establish a uniform time and attendance system at all locations
- The Kit TA-H3 includes all the hardware required for time and attendance registration for an individual location:
  - **Regis H-1-Kit** time and attendance controller
  - **Spider W5-NET** communication converter and power supply
- Unlike other Jantar's time and attendance kits, the Kit TA-H3 does not include software
- Operation of all T&A controllers in the system monitor programs Codeks TA Kit or Codeks TA

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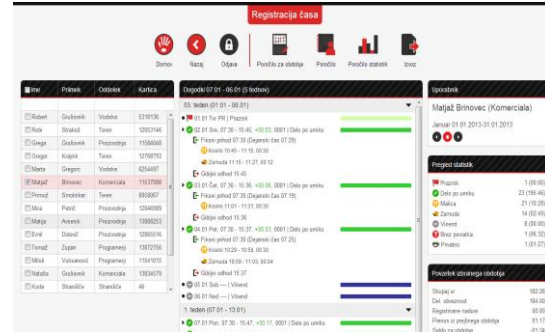| Code	Specification
KIT TA-H3	T&A expansion kit with T&A controller Regis H-1-Kit

Time& attendance kit TA-TC-NET

Spider W5

Regis T-1-Kit

Program Codeks TA Kit

- Designed for small companies, that wish to set up an efficient time and attendance registration at little cost
- Very simple and user friendly interface
- Kit TA-TC includes:
  - 7" touch screen time and attendance controller **Regis T-1-Kit** with a built-in contactless card reader and TCP/IP communication converter
  - **Spider W5** power supply
  - **10 contactless cards**
  - **Codeks TA Kit time and attendance software**
- Program Codeks TA Kit allows the entry of new employees' cards and employees' data, the creation of timetables, reviewing of the recorded data, the correction of records, preparation of the reports and extracts by various criteria, the entry and changing of time intervals, etc.
- Employees can be assigned with a password and a user name to view their registered events and generate a report of the events
- If the employees are trusted, they are allowed to set their own times of arrivals and exits
- In the user editor, a report of the working hours for a specific period for each employee can be made
- Optional hardware expansion sets are available for the customers who would like to expand their time & attendance system with additional entry points on the same or on different locations

ORDERING CODES

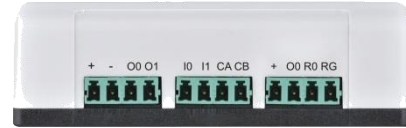| Code	Specification
KIT TA-TC-NET	T&A kit with RS-485/TCP/IP communication converter (T&A hardware communicates with the software over LAN/WAN), **for up to 40 employees**
KIT TA-TC-NET-EXP	T&A kit with RS-485/TCP/IP communication converter (T&A hardware communicates with the software over LAN/WAN), **for up to 100 employees**

Time& attendance expansion kit TA-T3

Expansion kit TA-T3

- Time and attendance expansion kit TA-T3 is designed for companies or institutions with more business or organizational units scattered at different locations wishing to establish a uniform time and attendance system at all locations
- The Kit TA-T3 includes all the hardware required for time and attendance registration for an individual location:
    - **Regis T-1-Kit** time and attendance controller
    - **Spider W5** power supply
- Unlike other Jantar's time and attendance kits, the Kit TA-T3 does not include software
- Operation of all T&A controllers in the system is monitored by programs Codeks TA Kit or Codeks TA

ORDERING CODES

Code	Specification
KIT TA-T3	T&A expansion kit with T&A controller Regis T-1-Kit

Time & attendance kit with access control
TA-AC-NET

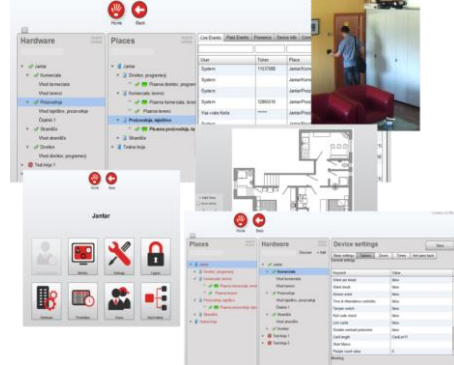| Regis	Reader	Spider W40	Codeks TA
T-1-9-NET	**O-1-D**		

- Designed for the companies, that wish to set up time and attendance registration together with additional access control for main entrance into their premises
- Kit TA-AC-NET includes:
  - 7'' touch screen time and attendance controller **Regis T-1-9-NET** with a built-in contactless card reader and a connector for additional access control reader
  - additional external access control reader **Reader O-1-D**
  - power supply **Spider W40**
  - **10 contactless cards**
  - **Codeks TA** time and attendance and access control software
- Simple and user friendly interface
- Web based software for advanced access control and time & attendance systems Codeks TA records the times of arrival at work, the duration and number of lunches/snacks, the times of departures from work, the time and duration of specific exits (official, private, emergency), leave for the past and current year, sick leave, overtime, transfer of hours, etc.
- Codeks TA supports also more complex working schedules
- Access control rights for entering into company's premises can be assigned to the employees
- Access to the application, installed on a server, through web browser (Internet Explorer, Firefox, Chrome,..)
- Installation of any special software on user site is not necessary (no clients)
- Modular structure enables optional expansion with advanced software modules
- Optional hardware expansion sets are available for the customers who would like to expand their time & attendance system with additional entry points on the same or on different locations

ORDERING CODES

Code	Specification
KIT TA-AC-NET	Time & attendance kit with additional access control reader, **for up to 40 employees**
KIT TA-AC-NET-EXP	Time & attendance kit with additional access control reader, **for up to 100 employees**

Key management system NEO

Key management system NEO

- NEO key management system can be used as a standalone unit(s) or integrated into Jantar's access control systems, controlled by access control programs Codeks, which is required for programing, events recording and creation of the reports
- Designed for hotels, government institutions, storage facilities, office and apartment buildings, car pools, etc.
- Key management system NEO consists of the following components:
    - **NEO M-0-NET** - master unit with 40W power supply for max. 8 NEO K-10 units
    - **NEO K-10** - unit for issuing keys, each unit for 10 keys, max. 8 units in stack, for 125kHz or 13,56MHz key tags (TAGS NEO-1, TAGS NEO-3-M or TAGS NEO-3-D)
    - **TAGS NEO-x-x** – set of 125kHz or 13,56MHz key tags (TAGS NEO-1, TAGS NEO-3-M or TAGS NEO-3-D, 10 tags in each set)
    - **User ID card reader**, installed on a front of master unit NEO M (with or without keypad) - for identification of the user
- More NEO units can be used in the same system
- RS-485 and TCP/IP communication as standard
- Anti-tamper protection
- Battery backup
- External emergency power supply

TECHNICAL DATA
- **Dimensions: 550x1150x80mm (each NEO M or NEO K unit)**
- **Operating voltage: 220V AC 50-60Hz**
- **Output (NEO M): 13,8V (40 W, full time)**
- **Primary fuse: 250V 2A**
- **Short circuit, overload and thermal protection**
- **IP21 protection (for indoor installation only)**
- **Anti-tamper protection**
- **Operating temperature: from +5°C to +55°C**
- **Battery backup (7Ah – option, battery not included!)**
- **Connectors for external emergency power supply (at least 7Ah – option, battery not included!)**

ORDERING CODES

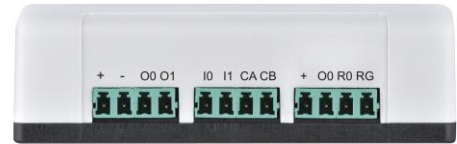| Code	Specification
NEO M-0-NET	Master unit with 40W power supply, for max. 8 NEO K-10 units***** ***without reader for user identification - Reader A/O/K, Reader A/O/K-3P or Regis H-1 or Regis H-3 (it must be bought separately!)**
NEO K-10	Unit for issuing keys (for 10 keys)****** **** without key tag sets TAGS NEO-1, NEO-3-M or NEO-3-D (must be bought separately)**
TAGS NEO-1	Key identification tags (125kHz, 10 pcs.)
TAGS NEO-3-M	Key identification tags (Mifare S50, 13,56MHz, 10 pcs.)
TAGS NEO-3-D	Key identification tags (Mifare Desfire, 13,56MHz, 10 pcs.)

Power supply Spider W5 (10W)

Spider W5

- Specially designed for use with standalone access controllers from Lokus, Rex or Regis family
- Strong enough to power one standalone controller and one DC door strike (12V DC, max. 500mA)
- Pluggable connectors
- Spider W5 has outside connectors with no connection to its internal circuit board (connection points for door switch or push button or eventual RS-485 communication with other Rex standalone controllers, controlled by access control program), which makes connection of accessories very easy
- Push button switch and door strike status input connectors
- Door-strike output connectors
- Additional 5A relay – it triggers together with door-strike output

TECHNICAL DATA
- **Dimensions: 120x80x33mm**
- **Operating voltage: 110-230V AC**
- **Output: 12V DC, 0.8A**
- **Primary fuse: F100, 250V 0.25A**
- **Secondary fuse: F101, 16V 1.1A**
- **Door status and push button input connectors**
- **Door strike transistor output connectors**
- **Pluggable connectors**
- **Power consumption: less than 1 W + load**
- **Operating temperature: +5 to +40°C**
- **LED status notification**

ORDERING CODE

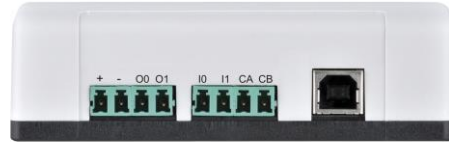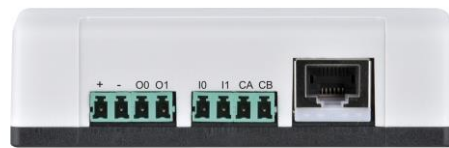| Code	Specification
SPIDER W5	Power supply (10W)

Power supplies with communication converter
Spider W5-USB / Spider W5-NET

Spider W5-USB

Spider W5- USB/NET

Spider W5-NET

- Spider W5-USB/NET can be used as a power supply/communications converter with standalone access controllers from Rex family or as a communication converter with access controllers (Trigger, Populus) and time & attendance controllers (Regis)
- Powerful enough to power one standalone controller and one DC door strike or electromagnetic lock (12V DC, 500mA)
- Pluggable connectors
- Spider W5-USB/NET has outside connectors with no connection to its internal circuit board (connection points for door strike or eventual RS-485 communication with other controllers, controlled by access control program), which makes connection of accessories very easy
- Door-strike output connection points

TECHNICAL DATA
- **Dimensions: 120x80x33mm**
- **Operating voltage: 110-230V AC**
- **Output: 12V DC, 0.8A**
- **Primary fuse: F100, 250V 0.25A**
- **Secondary fuse: F101, 16V 1.1A, resetable**
- **Pluggable connectors**
- **Door strike transistor output connectors**
- **Power consumption: less than 1W + load**
- **Operating temperature: +5 to +40°C**
- **LED status notification**

ORDERING CODES

Code	Specification
SPIDER W5-USB	RS485-USB communication converter with power supply (10W)
SPIDER W5-NET	RS485-TCP/IP communication converter with power supply (10W)

Power supplies Spider W40 / Spider W40-NET

Spider W40 / W40-NET

- Power supply (40W) with optional battery backup or optional built-in TCP/IP communication converter, designed for use with controllers Lokus, Rex and Regis (when battery backup is requested)
- Spider W40 is sufficiently strong to power two standalone access controllers and two door strikes or electromagnetic locks (max. 500mA)
- Optional battery (2.3Ah), mentioned as a backup power supply (normal operation of the Spider W40 or Spider W40-NET does not require an additional battery)
- Built-in electronics for charging the battery
- Connecting point for push button and door status switch
- Connecting point for door strike output
- Two 5A relays, which triggers together with door-strike output
- Optional built-in TCP/IP converter, which enables communication between attached controller and access control or T&A software via LAN/WAN (Spider W40-NET only)

TECHNICAL DATA

- **Dimensions: 180x180x80mm**
- **Operating voltage: 110-230V AC**
- **Output: 13,8V DC (40W, full time)**
- **Primary fuse: 250V 2,5A**
- **IP21 protection**
- **Door status and push button wiring connection points (for 2 standalone access controllers)**
- **Door strike output wiring connectors**
- **Two 5A relays outputs**
- **Power consumption: up to 1 W + load**
- **Operating temperature: -20 to +40°C**
- **Humidity: 10-80%, non-condensing**
- **LED status notification**
- **Battery support (battery not included)**
- **Integrated TCP/IP communication converter (Spider W40-NET)**

ORDERING CODES

Code	Specification
SPIDER W40	Power supply (40W)
SPIDER W40-NET	Power supply (40W) with integrated RS-485 - TCP/IP communication converter

Wireless communication bridge Wibra RS-485

Wibra RS-485

- Wireless RS-485 communication bridge
- Designed for the projects, where it is not possible to install UTP cable or to establish RS-485 communication line
- One Wibra RS-485 unit is necessary on each end of the bridge
- Wibra operates on the 868MHz ISM band, therefore not any special permissions for its use are necessary
- Hidden antenna
- Transmission range up to 100m (open space, without physical obstacles in transmission field)
- Suitable for outdoor installations
- LED status notification

TECHNICAL DATA

- **Transmission frequency: 868MHz**
- **Transfer rate: 76,8kbps**
- **Output : 100mW**
- **Modulation type: FSK**
- **Dimensions: 120x95x15mm**
- **Transmission distance: up to 700m outdoors, inside of buildings it depends on the construction materials and interference of other devices**
- **IP65 protection**
- **Power supply: 9 do 14V DC (Spider W5, Spider W40, access controllers, T&A controllers)**
- **Temperature range: from -20°C to +70°C**
- **Max. current consumption: 100mA**
- **LED status notification**

ORDERING CODE

Code	Specification
WIBRA RS-485	Wireles communication bridge Wibra in A-type casing (2 units in set)

Wibra RS-485 – with 6 x 0,22 alarm cable (3m)

Reader D-x-USB

Reader D-1-USB / Reader D-1-USB

- Developed for administrators of access control and time and attendance systems – for enrolment of new cards, issuing of temporary cards or replacement of lost cards
- It can be used also in third party applications
- Reader D-1-USB is connected to the computer with a USB cable; it creates a virtual COM port through which it sends data

TECHNICAL DATA

- **Reading frequency: 125kHz (D-1USB) / 13,56MHz (D-3-USB)**
- **Reading distance: 8cm (D-1-USB) / 5cm (D-3-USB)**
- **Dimensions: 64x10mm**
- **IP21 protection**
- **Power supply: 5V (from USB port of the computer)**
- **Power consumption: up to 130mA**
- **Operating temperature: from +5 to +40°C**

ORDERING CODE

Code	Specification
READER D-1-USB	USB reader in **D** box, 125kHz
READER D-3-USB	USB reader in **D** box, 13,56MHz

Enclosed USB cable (1,5m)

Capacitive switch buttons

Button D-C

- For unlocking the doors in access control systems with lower security level of two-way access control (for instance, Button can be used as an exit button instead of exit access control reader for unlocking the door-strike or opening sliding doors)
- An inexpensive way of basic two-way access control where one way access control is already implemented
- Button can also be used in any other application where a push button is needed
- Black Line family design
- LED and buzzer for signalization of the door strike status and sound warnings – self driven or controlled by access controller (Button D-C-R only)

TECHNICAL DATA
- **Dimensions: 64x10mm**
- **Capacitive touch distance: up to 4mm**
- **IP65 protection**
- **External power supply 9 to 14V DC**
- **Transistor output 500mA**
- **Max. current consumption 15mA**
- **Operating temperature: from -20 to +70°C**
- **LED and buzzer**
- **LED and buzzer control inputs (Button D-C-R only)**

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Code	Specification
BUTTON D-C-B	With self-driven LED and buzzer
BUTTON D-C-R	With LED and buzzer control input

Button D-C-B - with 4 wires flat cable (25cm).
Button D-C-R - with 6 wires flat cable (25cm).

Contactless Cards and Tags

- **Read-Only:**
  - Credit card format
  - Key fob
  - Built-in integrated circuit package has a registered 64-bit serial code and antenna in which the electric current is induced and provides power supply at the same time
  - Through the antenna, the integrated circuit transmits 64-bit information which can be read by an appropriate reader

- **Read-Write**
  - Cards or key fobs
  - Communication between the reader and the card is encrypted
  - The system can operate with several cards in the single reader range
  - It can simultaneously identify, read and write but it can communicate with one card at a time only, so it is impossible to record data on the wrong card
  - The range of read-write cards is smaller than that of read-only cards but they tend to be safe
  - It is more difficult to falsify the data recorded on them or to duplicate the card

ORDERING CODES

Code	Specification
CARD C-1	Contactless ISO card, reading frequency 125kHz, with printed Jantar hand logo
CARD C-1-LR	Contactless ISO card, reading frequency 125kHz, extended reading range
CARD C-1-LUX	High quality contactless ISO card, reading frequency 125kHz, white, for printing edge to edge
CARD C-3-M	Contactless ISO card, reading frequency 13,56MHz Mifare Classic
CARD C-3-D	Contactless ISO card, reading frequency 13,56MHz, Mifare Desfire
CARD C-13	Contactless ISO combo card, dual reading frequency (125kHz + 13,56MHz)
TAG T-1	Contactless key tag, reading frequency 125kHz, light grey
TAG T-3	Contactless key tag, reading frequency 13,56MHz, light grey
TAG TP-1-UID	Contactless pear shape key tag, reading frequency 125kHz, black, with engraved UID

RF transmitter – REMO

Remo E-V9

- 3-channel RF transmitter for use with RF receivers Lokus A-4 and Rex A-4
- It can be used also with Reader A-4-D, controlled by access controller Trigger or Populus
- Remo E-V9 can be used for opening barriers, gates, garage doors, switching on/off alarm systems, etc.
- Designed for both residential and public parking places and garages
- For use in advanced access control systems, controlled by access control programs Blocker or Codeks

TECHNICAL DATA
- **Transmission frequency 433Mhz**
- **Dimensions: 39x56x8mm**
- **Transmitting range up to 50m (if no disturbances)**
- **128 bit security encryption**
- **"Flash Light" function**
- **Operating temperature: from 0°C to 60°C**
- **Battery 3V CR2032**
- **Additional integrated 125kHz tag (option)**

ORDERING CODE

Code	Specification
REMO E-V9	RF transmitter in E box, 433MHz
REMO+T E-V9	RF transmitter with additional 125kHz tag, E box, 433MHz

Jantar