NEO K-10 – THE UNIT OF KEY MANAGER SYSTEM FOR 10 KEYS

NEO K-10 is the unit of KEY MANAGER system used for the storage and control of 10 keys or 10 keys groups. It is intended for use in automotive, real estate, police and tourist activities, in fact in every activity in which you need effective control of keys. There can be a maximum of 8 NEO K-10 units and 1 main unit NEO M-0-NET in one set. The system may be build of multiple sets with different numbers of NEO K-10 units (1 to 8). The system can be operated and monitored with the software, but it can also be used as standalone after it is set with the software. The keys are attached on the tags with a non-removable security lock/seal/ring.

Unit issues keys only to the person who identifies itself on the reader with the card or code and has the rights to use them. An authorized person may take one or more keys, depending on the preset rights. Returning of the keys is performed by identification of the authorized person through the card or code and identifying the key through the tag, on the reader. With the identification of the tag on the key ring, the system indicates to which key insert hole the key belongs.

TECHNICAL DATA

NEO K-10	
Input voltage	12V DC
Current consumption	Up to 1W in standby Up to 6W when key is issued Up to 60W when keys are issued in "Emergency"
Humidity	10-80%, non-condensing
Dimensions (mm)	550x150x80 (WxHxD)
Operating temperature	From +5°C to +55°C
Communication	RS485
Nb. of key insert holes	10
Reader	Wiegand 26-bit 125 kHz/ 13.56 MHz or protocol reader 13.56 MHz (RS485)
Indication	Green and red LED, buzzer
Clock	Real time clock, battery backup (max. ten hours)

Power Supply

The unit can be powered only through the main unit NEO M-0-NET. It has short-circuit protection and overload protection. In the case of protection activation, the power will be switched off for 5s.

Environment

Do not install the unit on/in a place, where it can come in contact with water. You must assure good cable joints, protected against moisture, otherwise corrosion may damage the controller. Damage in such cases is not covered by the warranty.

Communication

Communication between units and Jantar's software runs on RS485 bus.

Ethernet:

You can connect the unit to your computer via NEO M-0-NET unit by using the integrated Ethernet interface.

RS485:

If you do not want or cannot use the built-in Ethernet interface, connect RS485 communication of the NEO K-10 units to the communication converter from the Spider family: Spider-W5 USB, Spider-NET W5 and through it to the computer. For the RS485 communication line is recommended to use FTP or S-FTP cable. There can be only one key manager system on one communication line. You should not connect other controllers on the communication line.

The unit has a preset address from 1 to 8. If you will use the unit as additional unit in the system or as a unit which will replace the old one, please contact the company Jantar d.o.o. to preset the units address.

CONNECTOR DESCRIPTION

Connectors are marked on the circuit board with EM, DEV and RDW.

CONNECTOR EM – connection of "Emergency" power supply if NEO M unit no longer has any power source

Contact	Description	Specification
1	12 V DC	Max. 5 A on 1 connector
2	GND	Ground

Contacts follow each other in sequence from left to right. The first contact is marked with a white dot.

According to the order of the NEO K-10 unit in the system, connect the appropriate connector CE0-CE7 from the NEO M unit to the EM connector. CE0 connector must be connected to the first NEO K-10 unit, CE1 to second, etc. When the unit is connected, press the corresponding button (ES0-ES7) on the NEO M unit to open all of the key insert holes on the NEO K-10 unit.
Example: connect the CE0 connector from the NEO M unit to the EM connector on the NEO K-10 unit. Pressing the ES0 button will open all of the key insert holes on the NEO K-10 unit.

For proper operation, contacts EMERGENCY and GND (PWR connector on the NEO M unit) must be connected to an appropriate power source. Please check the NEO M manual.

CONNECTOR DEV – connection of power supply and RS485 communication line

Contact	Description	Specification
1	12V DC	Max. 1 A on 1 connector
2	GND	Ground
3	CA	RS485 A line
4	CB	RS485 B line

Contacts follow each other in sequence from left to right. The first contact is marked with a white dot.

The entire connector must be connected from the NEO M unit on the NEO K-10 units (max. 4 units in 1 connector). The connector from which the connection starts is marked CE0-CE7 on the NEO M unit.

CONNECTOR RDW – connection of Wiegand 26-bit data lines, LED and beeper to the reader

Contact	Description	Specification
1	DATA 0	Wiegand data line 0
2	DATA 1	Wiegand data line 1
3	BUZZER	Output for buzzer
4	LED	Output for LED

Contacts follow each other in sequence from left to right. The first contact is marked with a white dot.

Connection of data lines and inputs for buzzer and LED of Wiegand 26-bit reader. The whole RDW connector must be connected from NEO M unit on each NEO K-10 unit. It can be looped from one to the next.

ORDERING CODES

NEO [box]-[card]-[software]
Box: **K**
Nb. of keys: **10**

Code	Specification
NEO K	**K** housing, for 10 keys or 10 keys groups, overload and thermal protection

OTHER

Please read through our warranty and disclaimer statements.

Connection scheme and additional support for the use of this product can be found on:
http://www.jantar.si/forum/en

CONTACT:
Jantar d.o.o.
Kranjska cesta 24
4202 Naklo **web: www.codeks.eu**
SLOVENIA **mail: sales@jantar.si**