

Access control system: Desktop smart-card programmer kit

Code: EK-TPBOX-TP

Technical Sheet STEKTPBOXTP_EN

The card programmer kit is a table-top control panel, coordinated with the aesthetic lines of the ekinex® wall-mounted products, to be installed at one or more reception points in an accommodation facility, in combination with the KNX standard products for controlled access to rooms and public areas EK-TR2-TP and EK-TH2-TP and the ekinex® accédo EK-ACC-SW supervision and card programming software.



Description

The programmer kit, suitable for reception desks in hospitality facilities such as hotels and reception centers, is equipped with an elegant frame in pre-painted aluminum in bromine gray and performs the following functions:

- Programming smart-cards with RFID (Radio Frequency Identification) technology, 13,56 MHz frequency, Mifare Classic 1kB protocol
- Signaling room alarms via buzzer (for example the bathroom tie rod alarm)
- Alarm silencing through manual button

The kit must be used in combination with the accédo supervision software. The software has a form for programming guest and service personnel cards with access to the internal database of user registration. Card programming is also subject to the management of available rooms. The detection of room alarms can be combined with supervision pages that identify in greater detail the room in which the alarm has been generated and with desktop notifications: the supervisor's database stores the history of all alarms generated, silenced and returned to the accommodation facility.

The kit is supplied with only the internal electrical connections and for the correct functioning it is necessary to make the following external electrical connections:

- 12Vac power supply (transformer not included)
- KNX bus power supply to the card programmer device EK-TP2-TP and to the universal KNX interface device EK-CC2-TP (2 IN / 2 OUT).



Warning! The electrical connection of the kit may only be carried out by qualified personnel.



Note. The programming of the cards and the realization of the logic for the bathroom alarms require the specific configuration of the devices using the ETS program and the configuration of the accédo supervision software. For specific requirements, please contact the ekinex service department.



Note. It is suggested that the programmer kit be used with smart-cards verified for the type of application, such as the cards code ekinex EK-TCE-10 (ekinex logo in black color, 10 pieces) or EK-TCC-10 (customized with customer logo, 10 pieces).

Main features

The EK-TPBOX-TP kit consists of the following devices:

- n°1 KNX transponder card programmer cod. EK-TP2-TP
- n°1 universal KNX interface EK-CC2-TP (2 IN / 2 OUT)
- n°1 buzzer 12Vac, 5VA, bTicino living-light series, code BTI-L4356_12, anthracite color
- n°1 push button 1P NO, 10A at 250Vac, bTicino living-light series, code BTI-L4005N, anthracite color

The external power supply not included in the supply must be made with transformer 12Vac 1A. The card programmer and the universal interface with 2 inputs and 2 outputs must be connected to the KNX TP bus (twisted pair) by means of the red-black terminal provided.

Other characteristics

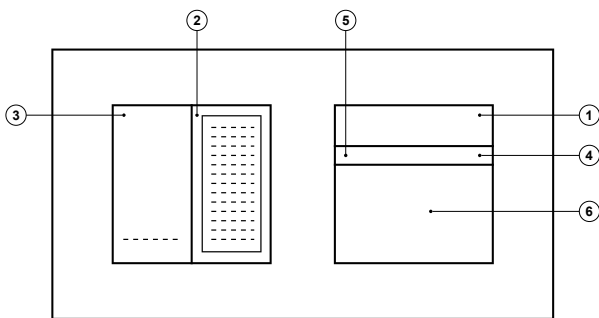
- card programming with RFID technology, 13,56 MHz frequency, Mifare protocolo, Classic 1 KB
- 4M table-top box, color gray, with plastic housing
- Degree of protection IP20 when installed (according to EN 60529)
- Insulation class II (according to EN 60335-1)
- Climatic classification 3K5 (indoor use, dry) and mechanical classification 3M2 (according to EN50491-2)
- Device weight: 250 g
- Dimensions 148,8 x 92 x 25,1 mm (W x H x D)

Environmental conditions

- Operating temperature: 0°C ... + 40°C
- Storage temperature: - 10 ... + 70°C
- Transport temperature: - 10 ... + 70°C
- Relative humidity: 95% non condensing

Operating and signaling

The card programmer kit consists of the actual programmer, an alarm buzzer and a monostable silencing button.



1. Transponder card programmer
2. Buzzer
3. Push button for alarm silencing
4. Light guide transponder programmer
5. LED 3 colors (white, green and red)
6. RFID antenna

Signaling elements

- 3-color LED. The LED flashes red when the card is not recognized
- Buzzer for acoustic signaling of bathroom tie-rod alarms

Control elements

- Alarm silencing button



Note. The recognition and programming of the smart-card is carried out using RFID (radio frequency identification) technology. For correct operation, the card must be placed near the programmer at a maximum distance of 3-4 cm.



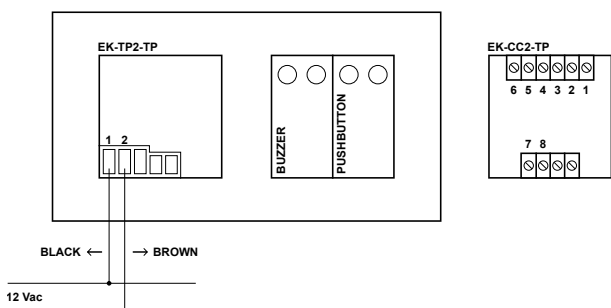
Note. The 3-color LEDs can be used to provide other indications to the user at the front desk. The activation logic must be configured in the device via the ETS program.

Power 12Vac

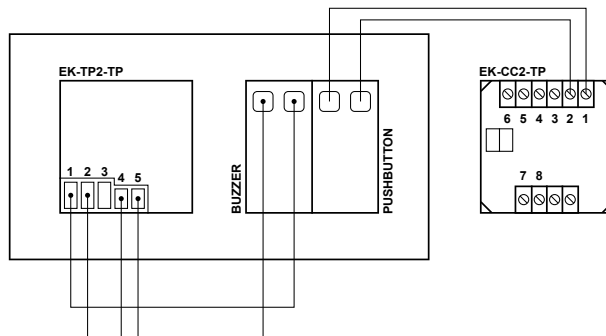
The connection to the power supply is made by means of the screw terminals (1)+ and (2)- located on the terminal board of the card programmer EK-TP2-TP, inside the desktop box.

Clamp features

- Screw clamping of conductors
- Max. conductor cross-section 2.5 mm²
- Recommended conductor stripping approx. 6 mm
- Max. torque 0.5 Nm



Il box da tavolo viene fornito con i precablaggi interni rappresentati in figura.



Warning! The electrical connection of the device may only be carried out by qualified personnel.



Warning! When connecting the 12Vac power supply, pay attention to the existing pre-wiring on the terminals (1)+ and (2)- of the card programmer EK-TP2-TP.



Nota. Utilizzare un trasformatore esterno con tensione sul secondario di 12Vac e corrente disponibile di almeno 1A.

Connection to KNX bus

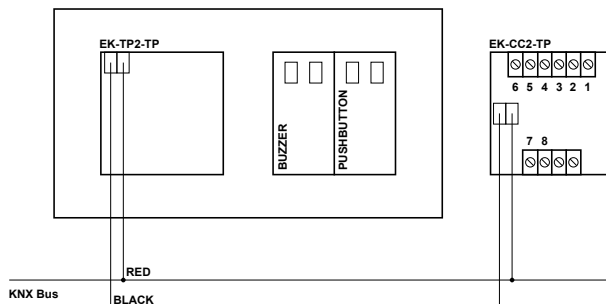
The connection to the bus network is established by means of the KNX terminal which is included in the scope of delivery and which is plugged into the appropriate housing on the back of the EK-TP2-TP card programmer and on the front of the EK-CC2-TP universal interface.

KNX terminal features

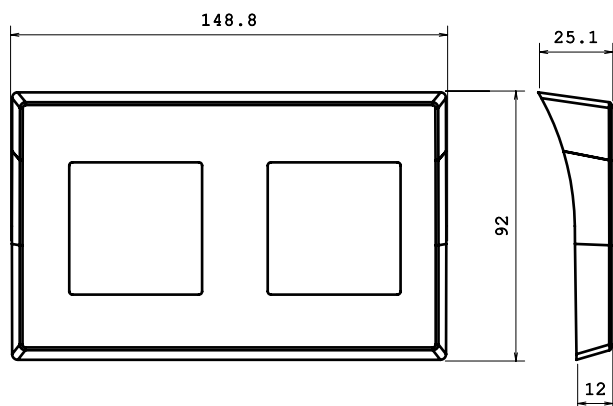
- Spring clamping of conductors
- 4 conductor slots for each polarity
- Suitable for KNX bus cable with single-wire conductors of 0.6 to 0.8 mm diameter
- Recommended conductor stripping approx. 5 mm
- Color coding: red = bus wire + (positive), black = bus wire - (negative)



Warning! Only use KNX bus power supplies (e.g. ekinex EK-AB1-TP or EK-AG1-TP) for the supply of KNX bus lines. The use of other power supply devices can impair communication and damage devices connected to the bus.



Dimensions [mm]



Approvals

The desktop programmer kit is an assembly of components that comply with the Low Voltage Directive (2014/35/EU) and the Electromagnetic Compatibility Directive (2014/30/EU). Tested in accordance with EN 50491-5-1:2010, EN 50491-5-2:2010.

What is stated is valid for all electronic devices that make up the kit:

- KNX ekinex® transponder card programmer code EK-TP2-TP
- Universal KNX ekinex® interface EK-CC2-TP (2 IN / 2 OUT)
- 12Vac buzzer bTicino living-light series, code BTI-L4356_12
- 1P NO button, bTicino living-light series, cod. BTI-L4005N

Maintenance

The desktop programmer kit is maintenance-free. To clean it, use a dry cloth. The use of solvents or other aggressive substances is absolutely to be avoided.

Disposal



The kit described in this technical sheet at the end of its useful life are classified as waste from electronic equipment according to the European Directive 2012/19 / EU (RAEE recast), implemented in Italy with Legislative Decree no. 49 of 14 March 2014, and cannot be transferred to unsorted municipal solid waste.



Important! Incorrect disposal of the kit can cause serious damage to the environment and human health. For correct disposal, inquire about the collection and treatment methods provided by the local authorities.

Document

This technical sheet refers to the A1.0 release of ekinex® kit cod. EK-TPBOX-TP and is available for download on the website www.ekinex.com in PDF (Portable Data Format) format.

File name	Release	Update
STKTPBOXTP_EN.pdf	A1.0	04 / 2021

Warnings

- The assembly, electrical connection, configuration and commissioning of the desktop programmer kit may only be performed by qualified personnel in compliance with the applicable technical standards and laws of the respective country.
- The use of the kit in safety applications is excluded. However, the device can be used for auxiliary signaling functions.
- If the components are tampered with, compliance with the essential requirements of the applicable directives for which the kit was designed is no longer guaranteed.
- Defective ekinex® KNX kit components must be returned to the manufacturer at the following address: Ekinex S.p.A., Via Novara 37 - I-28010 Vaprio d'Agogna NO.

Other useful information

- This technical data sheet is addressed to installers, system integrators and designers
- For more information on the product, you can contact ekinex® technical support at the e-mail address: support@ekinex.com or consult the website www.ekinex.com
- Each ekinex® device has a unique serial number on the label. The serial number can be used by installers and system integrators for documentation purposes and must be added to any communication addressed to ekinex® technical support in case of equipment malfunction.
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