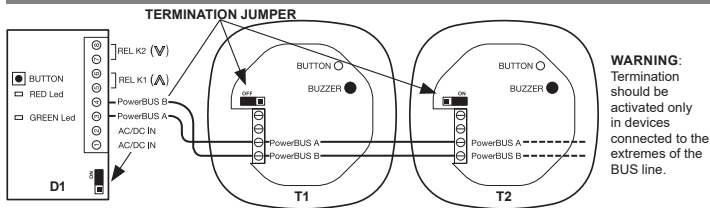


EGKTB1 EGKD2

Tastiera touch via bus
Touch keypad via bus
Clavier tactile via bus
Teclado táctil via bus
Touch-Tastatur über Bus
Teclado tátil via bus
Klawiatura dotykowa z magistralą



CONNECTION



1 - WARNINGS FOR IT SECURITY

EN

ATTENTION! – to ensure the safety of persons it is important to follow these instructions and keep them for future use. Carefully read the instructions before installing and performing the work as specified by the manufacturer; check if the product is suitable for the type of use desired. The device must only be intended for the use for which it was expressly designed. Installation, programming, commissioning and maintenance of the equipment must only be carried out by qualified technical personnel, in compliance with the mandatory regulations, including those for the correct disposal of packaging. During installation, handle the equipment carefully, avoiding falls, collisions or contact with liquids; do not place the equipment near heat sources. Before carrying out any maintenance operations, disconnect the power supply to the device. The manufacturer cannot be held liable for any damage resulting from improper and unreasonable use. **WARNING: THE EGO keyboard is an electronic device, therefore in case of lack of electricity it cannot activate the relays. It is therefore recommended to provide for an appropriate alternative actuation system.**

2 – INTRODUCTION TO THE PRODUCT

TOUCH KEYPAD VIA BUS EGKTB1 is a keyboard with touch technology to be combined with the EGKD2 decoder using 2-wire PowerBUS technology. PowerBus is an integrated system that allows dialogue between different devices such as keyboards, window openers, lighting and alarm systems, photocells, etc. Its operation is based on a two-wire line that conveys power and data which:

- Up to ten devices can be wired in cascade in it and only one must be powered.
- Uses a very low AC or DC safety voltage supply (12-34Vac/Vdc)
- Is easy to set up and very flexible, most applications can work with the default settings.

2.1 - TECHNICAL FEATURES

		EGKTB1	EGKD2
Power supply	Vac	10-24	10-24
	Vdc	12-34	12-34
Consumption	Typical	0.25 W	0.2 W
	Maximum	1.5 W	23 W
Relay contact		0.2 A 50 V max on resistive load	
Maximum cable length	m	50 m with 2 x 0.35 mm ² cable	
Master and User Code Digits		3 to 6	
Number of storable codes		Up to 50	
Number of devices on the bus		Up to 10	
Operating temperature	°C	-10 +55	
Protection rating	IP	55	30
Dimensions	mm	79 x 79 x 23 (h)	88 x 41 x 25 (h)
Weight	gr.	112	87
Max number of keyboards that can be connected		@12Vac = 5; @30Vac = 10; @32Vdc = 17	

2.2 - CABLE TABLE

LENGTH	DESCRIPTION	TYPE
≤ 4 m	Multi-pole cable 2 x 0.35 mm ²	FROHR 300/500 V
> 4 - 50 m	Multi-pole cable 2 x 0.35 mm ²	FROHR 300/500 V
> 4 - 50 m	Ribbon and braided shielded multi-polar cable 2 x 0.35 mm ²	FR20HH2R 450/750 V

Cables with similar electrical characteristics but specific to the type of installation can be used. Do not use CAT5/5E/6 cables. The use of shielded cable is recommended only if it is not possible to avoid paths parallel to power lines subject to significant loads or impulse signals (motor power supply, inverter, etc.). In such situations, even a shielded cable may not provide adequate disturbance attenuation. The information on correct wiring can be found in paragraph 12.

3 - PRELIMINARY CHECKS







This PowerBus System Configuration Quick Guide requires that installation and wiring have been performed as indicated in the 580PADW product instructions available at www.keyautomation.it. Detailed information regarding the procedures described below is available in the instructions.

4 - INSTALLATION AND SWITCHING ON FOR THE FIRST TIME

Install and wire all devices. After supplying power, the keyboards present emit a long BEEP and the lighting remains active for about 10" seconds, then the colour changes sequentially; in the decoders the green LED starts flashing at 1" intervals. After powering the system, the **first operation to be performed** is to pair a keyboard with a decoder.

4.1 - KEYBOARD - DECODER PAIRING AND SETTING NUMBER OF DIGITS

To pair keyboard and decoder, proceed as follows.

Press and hold the P key on the keyboard until the colour turns RED		RED	
On the decoder, within 20", press briefly and release the button; the green LED remains on for a long time			
Wait (a few seconds) until the keyboard makes three consecutive long BEEPS			
On the decoder, the green LED turns off briefly and then flashes again at a frequency of 1"			







4.1.1 - KEYBOARD - DECODER PAIRING AND RELAY K1 AND K2 OPERATION CHECK

To carry out the check, type code 1234 followed by key ^, relay K1 on the decoder is activated briefly; key v briefly activates relay K2.

4.1.2 - SET THE NUMBER OF DIGITS OF THE CODE

The access codes of masters and users throughout the system are originally set to four digits; this number of digits can be changed to 3, 5 or 6. **PLEASE NOTE: the number of digits chosen will be unique for all users on all system keyboards.** In the future, to change the number of digits, it will be necessary to cancel the pairings of all devices. **WARNING: the default master code changes depending on the number of digits chosen: 3 DIGITS = 123; 4 DIGITS = 1234; 5 DIGITS = 12345; 6 DIGITS = 123456**

The procedure for changing the number of digits that make up the code is the following.

DESCRIPTION	EXAMPLE	COLOUR	BEEP
Start the procedure by pressing and holding the simultaneously keys \wedge and \vee until the lighting on the keyboard turns blue	$\wedge + \vee$ 5 sec. max	BLUE	 1 s
Type the master code (unless it has already been changed)	1234 \vee	ORANGE	 +  1s
Type the number of digits the code should consist of (example: 3)	3 $\wedge \wedge \vee$	YELLOW	 > 1s x3
Repeat the previous sequence	3 $\wedge \wedge \vee$	GREEN	 +  1s

Now the master code is 123.

PLEASE NOTE: each keyboard and/or decoder that will be added later will inherit the number of digits set on the first pair of devices. In the explanations below, the user codes are made of four digits.

4.2 - CHANGE THE MASTER CODE

Until now, the only existing code is master code 1234 and is enabled to operate both relays K1 and K2. It allows the performance of all system configuration operations, therefore it should not be disclosed for safety reasons.







PLEASE NOTE – some codes cannot be used because they are reserved for other functions.

In case of three-digit codes, do not use the number 001.

In the case of four-digit codes, do not use numbers 0020 to 0029 (included).

4.2.1 – CHANGE THE MASTER CODE AND OPERATION OF K1 AND K2

In the following example, the operation of both relays will be disabled.

DESCRIPTION	EXAMPLE	COLOUR	BEEP
Start the procedure by pressing and holding the simultaneously keys \wedge and \vee until the lighting on the keyboard turns blue	$\wedge + \vee$ 5 sec. max	BLUE	 1 s
Type the master code (unless it has already been changed)	1234 \vee	ORANGE	 +  1s
Type the new four-digit code followed by the operating code (see table), conclude by typing \vee	2 0 2 0 $\wedge \wedge$ 0 0 \vee	YELLOW	 > 1s x3
Repeat the previous sequence	2 0 2 0 $\wedge \wedge$ 0 0 \vee	GREEN	 +  1s

PLEASE NOTE: code 00 HAS been entered, therefore by typing the master code followed by \wedge and \vee no relay will be activated, the keyboard lighting will turn red and three short beeps will be emitted (incorrect code). Below is the list of operating codes that can be used:

CODE	DESCRIPTION
00	all disabled
01	relay K1 enabled
02	relay K2 enabled
03	relays K1 and K2 enabled (default)

4.3 – CREATE USER CODES

Up to 50 user codes can be added.







PLEASE NOTE – some codes cannot be used because they are reserved for other functions.

In case of three-digit codes, do not use the number 001.

In the case of four-digit codes, do not use numbers 0020 to 0029 (included).

4.3.1 – CREATE USER CODES AND CHANGE THE OPERATION OF K1 AND K2







In the following example, the user code that will be created can only operate relay K1.

DESCRIPTION	EXAMPLE	COLOUR	BEEP
Start the procedure by pressing and holding the simultaneously keys \wedge and \vee until the lighting on the keyboard turns blue	$\wedge + \vee$ 5 sec. max	BLUE	 1 s
Type the master code	1234 \vee	ORANGE	 +  1s
Type \wedge followed by the new four-digit code and the operating code (see table), conclude by typing \vee	\wedge 2022 \wedge \wedge 01 \vee	YELLOW	 > 1s x3
Repeat the previous sequence	\wedge 2022 \wedge \wedge 01 \vee	GREEN	 +  1s

CODE	DESCRIPTION
00	all disabled
01	relay K1 enabled
02	relay K2 enabled
03	relays K1 and K2 enabled (default)

4.3.2 - CREATE USER CODE WITH LIMITED ACCESS

The administrator can limit the number of activations that a user can perform. The number of accesses that can be assigned ranges from one to nine. At the end of the operations, the code will be deleted.







DESCRIPTION	EXAMPLE	COLOUR	BEEP
Start the procedure by pressing and holding the simultaneously keys \wedge and \vee until the lighting on the keyboard turns blue	$\wedge + \vee$ 5 sec. max	BLUE	 1 s
Type the master code	1234 \vee	ORANGE	 +  1s
Type \wedge followed by the new four-digit code followed by \wedge and the number of accesses you want to assign	\wedge 2 0 2 2 \wedge 3 \vee	YELLOW	 > 1s x3
Repeat the previous sequence	\wedge 2 0 2 2 \wedge 3 \vee	GREEN	 +  1s

4.3.3 – ASSIGN SPECIFIC FUNCTIONS TO RELAYS AND PROPERTIES TO USERS

Each of the two relay outputs can behave as timed (preset 1" ON) or bistable. In timed operation, the activation time can be varied. In addition, it is possible to determine which output relay(s) each user can activate (the default is both relays enabled) and whether it is enabled to change its user code. To configure the specific features, refer to the 580PADW product instructions downloadable from www.keyautomation.it.

4.3.4 - PAIRING MULTIPLE KEYBOARDS TO A DECODER

After pairing the keyboard T1 with the decoder D1 and defining the number of digits of the codes, it is possible to add additional keyboards, in this case T2. After wiring the new keyboard, proceed as follows:

Press and hold the P key on keyboard T2 until the colour turns RED		RED	 1 s
On the decoder, within 20", press briefly and release the button; the green LED remains on for a long time.			
Wait a few seconds, the keyboard emits three long BEEPS			 > 1s x3
On the decoder, the green LED turns off briefly and then flashes again at a frequency of 1"			

5 - ACCESSORY CONFIGURATIONS

The following features allow to customise your keyboard experience; they are not password protected and are permanently stored.

5.1 – CHANGING THE COLOUR OF THE KEYBOARD

DESCRIPTION	COLOUR	BEEP
Enter 0020	OFF	1s
Enter 0021	RED	1s
Enter 0022	GREEN	1s
Enter 0023	BLUE	1s
Enter 0024	YELLOW	1s
Enter 0025	MAGENTA	1s
Enter 0026	CYAN	1s
Enter 0027	WHITE	1s
Enter 0028	ORANGE	1s
Enter 0029 (standard)	RAINBOW	1s

THE OFF condition is useful if the keyboard light may cause discomfort during sleep hours.

5.2 – DEACTIVATING THE AMBIENT LIGHT SENSOR

The keyboard is equipped with an ambient light sensor with which it is possible to turn off lighting during the day. The setting is cyclic, the preset value is always active lighting.

DESCRIPTION	EXAMPLE	COLOUR	BEEP
Enter 001 to disable the sensor	001	GREEN	1s
Enter 001 to enable the sensor	001	YELLOW	1s

5.3 - DISABLING THE BUZZER

The keyboard has a buzzer that can be disabled, the preset value is always active buzzer. This feature is useful if the keyboard is installed in a bedroom.

DESCRIPTION	EXAMPLE	COLOUR	BEEP
Enter 001 to disable the buzzer	001	GREEN	
Enter 001 to enable the buzzer	001	GREEN	1s




6 – DELETING THE CODES

6.1 – DELETING A USER CODE

DESCRIPTION	EXAMPLE	COLOUR	BEEP
Start the procedure by pressing and holding simultaneously the keys and until the lighting on the keyboard turns blue	+ 5 sec. max	BLUE	1 s
Type the master code	1234	ORANGE	1s
Type followed by the code of the user you want to delete	2 0 2 2 	YELLOW	> 1s x3
Repeat the previous sequence	2 0 2 2 	GREEN	1s





6.2 – DELETION OF ALL CODES

The operation deletes all user codes including the master code that will return to the preset value. The number of digits of which the codes are made of is not changed. The combinations of all devices remain unchanged.

DESCRIPTION	EXAMPLE	COLOUR	BEEP
Start the procedure by pressing and holding simultaneously the keys \wedge and \vee until the lighting on the keyboard turns blue	$\wedge + \vee$ 5 sec. max	BLUE	 1 s
Type the master code (unless it has already been changed)	1234 \vee	ORANGE	 1s
Type the sequence	$\wedge \wedge \wedge \vee$	GREEN	 1s

7 – RESTORING FACTORY CONFIGURATIONS



7.1 - DELETING KEYBOARD PAIRING

DESCRIPTION	EXAMPLE	COLOUR	BEEP
Press and hold the P key on the keyboard until the colour turns RED		RED	 1 s
Release the P button and resume it until the colour turns GREEN		GREEN	

After deleting the pairing, the keyboard is no longer able to communicate with the decoder.

7.2 - ERASING THE MEMORY OF A DECODER

The procedure deletes all matches in the decoder memory, all user codes, and restores the four-digit and 1234 master code.

DESCRIPTION	EXAMPLE	COLOUR
Press and hold the key until THE RED LED lights up, release the button		RED
Press the button again until the colour of the LED turns GREEN and release it.		GREEN

7 – DISPOSAL

Packaging components (cardboard, plastic, etc.), properly separated, must be placed in the appropriate bins. The components of the device such as electronic boards, metal parts, batteries, etc., must be separated and recycled. For disposal methods, the rules in force at the place of installation must be applied.

DO NOT DISPERSE IN THE ENVIRONMENT!

DICHIARAZIONE DI INCORPORAZIONE DI QUASI-MACCHINA

DECLARATION OF INCORPORATION OF PARTLY COMPLETED MACHINERY

Il sottoscritto Nicola Michelin, Amministratore Delegato dell'azienda
The undersigned Nicola Michelin, General Manager of the company

Key Automation srl, Via Meucci 23 - 30027 San Donà di Piave (VE) – ITALIA

dichiara che il prodotto tipo:
declares that the product type:

EGO
Tastiera digitale via bus
Bus powered keypad

Modello:
Model:

900EGKT81, 900EGKD2

E' conforme a quanto previsto dalle seguenti direttive comunitarie:
Is in conformity with the following community (EC) regulations:

Direttiva macchine / *Machinery Directive 2006/42/EC*
Direttiva compatibilità elettromagnetica / *EMC Directive 2014/30/EU*
Direttiva bassa tensione / *LVD Directive 2014/35/EU*
Direttiva RoHS / *RoHS Directive 2011/65/EU*

Secondo quanto previsto dalle seguenti norme armonizzate:
In accordance with the following harmonized standards regulations:

EN 55032:2015
EN 50561:2013
EN 50421-2-1:2005
EN 61000-6-3:2007 + A1:2011, EN 61000-6-1:2017 (IEC/EN 61000-6-1:2019)

Dichiara che la documentazione tecnica pertinente al prodotto è stata redatta conformemente a quanto previsto dalla direttiva 2006/42/CE Allegato VII parte B e verrà fornita a fronte di una richiesta adeguatamente motivata dalle autorità nazionali.
Declares that the technical documentation is compiled in accordance with the directive 2006/42/EC Annex VII part B and will be transmitted in response to a reasoned request by the national authorities.

Dichiara altresì che non è consentita la messa in servizio del prodotto finché la macchina, in cui il prodotto è incorporato, non sia stata dichiarata conforme alla direttiva 2006/42/CE.
He also declares that is not allowed to use the above-mentioned product until the machine, in which this product is incorporated, has been identified and declared in conformity with the regulation 2006/42/EC.

San Donà di Piave (VE), 04/05/20

Amministratore Delegato
General Manager
Nicola Michelin



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