



TRIPLO W
Criamos Segurança!

Installation Guide
Data Sheet

TW—EH3

Standalone Embeddable Touch Keyboard



WARNING:

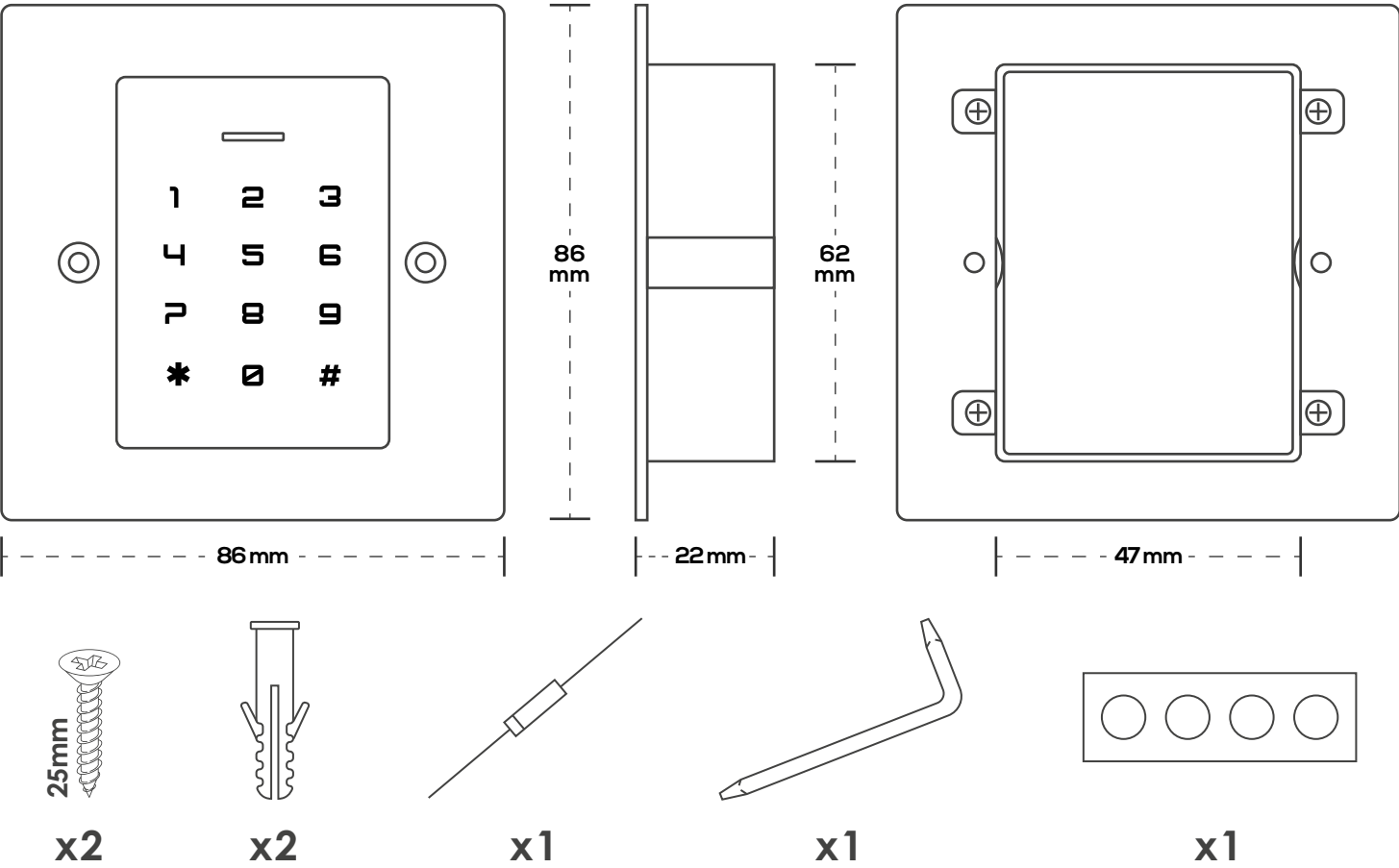
Please read the manual carefully before installation and keep it for future use.

www.triplow.pt



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Thank you for purchasing our product!



Data Sheet

MODEL	TW-EH3
MATERIAL	Stainless Steel
COLOR	Silver / Black
DIMENSIONS (mm)	86 x 86 x 22 mm
WEIGHT (KG)	0,205 Kg
PROTECTION GRADE	IP66
OPENING TYPES	Code, Card
CONNECTIVITY	Wiegand, EM 125KHz
VOLTAGE	12 ~ 18V DC
DATA CAPACITY	1000 Users (990 frequent, 10 guest)
WORK TEMPERATURE (°C)	-40° ~ +60°
WORK HUMIDITY (%)	0% ~ 98%
OPENING TIME	5 s default, adjustable 0 ~ 99 s
EXTRA CONNECTIONS	Alarm, exit button, relay

Reset to Factory Settings and Add Master Card:

Turn off the keyboard and press the Exit Button. Still pressing the Exit Button, turn the keyboard back on - it will emit 2 beeps; release the Exit Button - the LED light will turn yellow. Swipe an EM 125Khz card (LED light will turn red), meaning the operation was successful and factory settings have been reset

NOTES:

- If no Master Card is added, the Exit Button must be pressed for at least 5 seconds (this step will invalidate any previously registered Master Card);
- Resetting to factory settings does not delete user registrations and records.

Electrical Connections

COLOR	FUNCTION	DESCRIPTION
Red	POWER+	12-18V DC Power Input, regulated
Black	GND	Ground/Earth connection
Blue	NO	NO Normally Open Relay Output
Brown	COM	Common Connection Relay Output
Gray	NC	NC Normally closed Relay Output
Yellow	OPEN	Exit Button
Green	DO	Wiegand Input / Data Output 0
White	D1	Wiegand Input / Data Output 1

Indicators - Light and Sound

FUNCTION	LED COLOR	SOUND
Stanby	Red	-
Enter Programming Mode	Red, flashing	1 Beep
In Programming Mode	Orange	1 Beep
Operation Error	Red, blink 3 times	3 Beeps
Exit Programming Mode	Red, blink 1 time	1 Beep
Opening	Green	1 Beep
Alarm	Red, flashing repeatedly	Beep Repeatedly

FUNCTION	KEYBOARD OPERATION
1. Enter and Exit Programming Mode	<p>Enter Programming Mode: * (Master Code) # Default Master Code: 123456</p> <p>Exit Programming Mode: *</p>
2. Change Master Code	<p>Enter Programming Mode: * (Master Code) # 0 (New Master Code) # (Repeat New Master Code) # Code Length: 6 digits</p> <p>Exit Programming Mode: *</p>
3. Add Card <i>Frequent Users</i> Available ID's - 0 - 989 <i>Prog. Mode: * (Master Code) #</i>	<p><i>Automatic User ID (the system assigns the card to the next available user ID)</i> Cards can be added continuously 1 (Swipe Card) # * OR 1 (8/10 Card Digits) # *</p> <p><i>Specific User ID (allows the Admin to associate the card to a specific ID)</i> 1 (User ID) # (Swipe Card) # * OR 1 (User ID) # (8/10 Card Digits) # *</p> <p><i>Block Enrollment (allows the Administrator to add up to 988 cards to the reader in one single step - takes about 2 minutes to program)</i></p> <p>Cards' numbers must be consecutive. The (Card Quantity) to be inserted is the amount of cards that will be added 1 (User ID) # (Card Quantity) # (8/10 Digits of the First Added Card) # *</p>
4. Add Code <i>Frequent Users</i> Available ID's - 0 - 989 Code Length: 4 - 6 digits (except 8888) <i>Prog. Mode: * (Master Code) #</i>	<p><i>Automatic User ID (the system assigns the code to the next available user ID)</i> Codes can be added continuously * (Master Code) # 1 (Code) # *</p> <p><i>Specific User ID (allows the Admin to associate the card to a specific ID)</i> * (Master Code) # 1 (User ID) # (Code) # *</p>
5. Add Guest <i>Guest Users</i> Available ID's - 990 - 999 Code Length: 4 - 6 digits (except 8888) <i>Prog. Mode: * (Master Code) #</i>	<p><i>Guest Users</i> have a limited number of accesses that is defined by the Administrator; when this limit is reached, the Code/Card automatically becomes invalid) (0-9) - amount of access allowed. Limit = 10 times, 0 = Single Access</p> <p><i>Add Guest Card</i> 1 (User ID) # (0-9) # (Swipe Card) # * OR 1 (User ID) # (0-9) # (8/10 Card Digits) # *</p> <p><i>Add Guest Code</i> 1 (User ID) # (0-9) # (Code) # *</p>
6. Change Code <i>No need to enter programming mode</i>	<p>* (User ID) # (Old Code) # (New Code) # (Repeat NewCode) # <i>Change Card Code + Code</i> * (Swipe Card) (Old Code) # (New Code) # (Repeat NewCode) #</p>

FUNCTION	KEYBOARD OPERATION
7. Delete Users <i>Prog. Mode: * (Master Code) #</i>	<i>By Card / Code - Users can be deleted continuously</i> 2 (Swipe Card) # * OR 2 (User ID) # * <i>User ID</i> 2 (User ID) # * <i>By Card</i> 2 (8/10 Card Digits) # * <i>All Users except Administrator</i> 2 (Master Code) # *
8. Relay Configuration <i>Prog. Mode: * (Master Code) #</i>	<i>"Set Time" Mode - Factory setting. 5 seconds default, configurable from 0 - 99 s</i> 3 (0~99) # * <i>Change Mode - toggles the mode On and Off</i> 3 0 # *
9. Set Access Mode <i>Multiuser Access Mode</i> <i>Prog. Mode: * (Master Code) #</i>	<p>For Multi-User Access Mode, the time interval between each read cannot exceed 5 seconds, otherwise the device will automatically enter standby</p> <i>2 Cards Access</i> 4 0 # * <i>2 Codes Access</i> 4 1 # * <i>2 Cards + Code Access</i> 4 2 # * <i>2 Cards OR Code Access</i> 4 3 # * <i>Multiuser Access - define a number of users between 2~9. The door will only open after this number of users has been reached.</i> 4 3 (2~9) # *
10. Alarm <i>Prog. Mode: * (Master Code) #</i>	<p>Alarm will be activated after 10 failed access attempts; programmable to deny access for 10 minutes OR programmable to grant only access after insertion/reading of a valid user code/card or a Master code/card.</p> <i>Alarm OFF - factory default</i> 6 0 # * <i>Alarm ON - access denied for 10 minutes, Exit Button works normally</i> 6 1 # * <i>Alarm ON with timer - default time of 1 minute, configurable from 0 - 3 minutes. Is required a Master Code / Master Card or the Code / Card of a valid user to turn OFF/disable.</i> 6 2 # 5 (0~3) # *

FUNCTION	KEYBOARD OPERATION
11. Keyboard Sound and LED Lights <i>Prog. Mode: * (Master Code) #</i>	<i>Sound OFF</i> 7 0 # * <i>Sound ON - factory default</i> 7 0 # * <i>LED Always OFF</i> 7 2 # * <i>LED Always ON - factory default</i> 7 3 # * <i>Backlit Keyboard Always OFF</i> 7 4 # * <i>Backlit Keyboard Always ON</i> 7 5 # * <i>Timed Keyboard Backlit - Factory Default, turns off after 20 seconds</i> 7 6 # *

Simplified Instructions

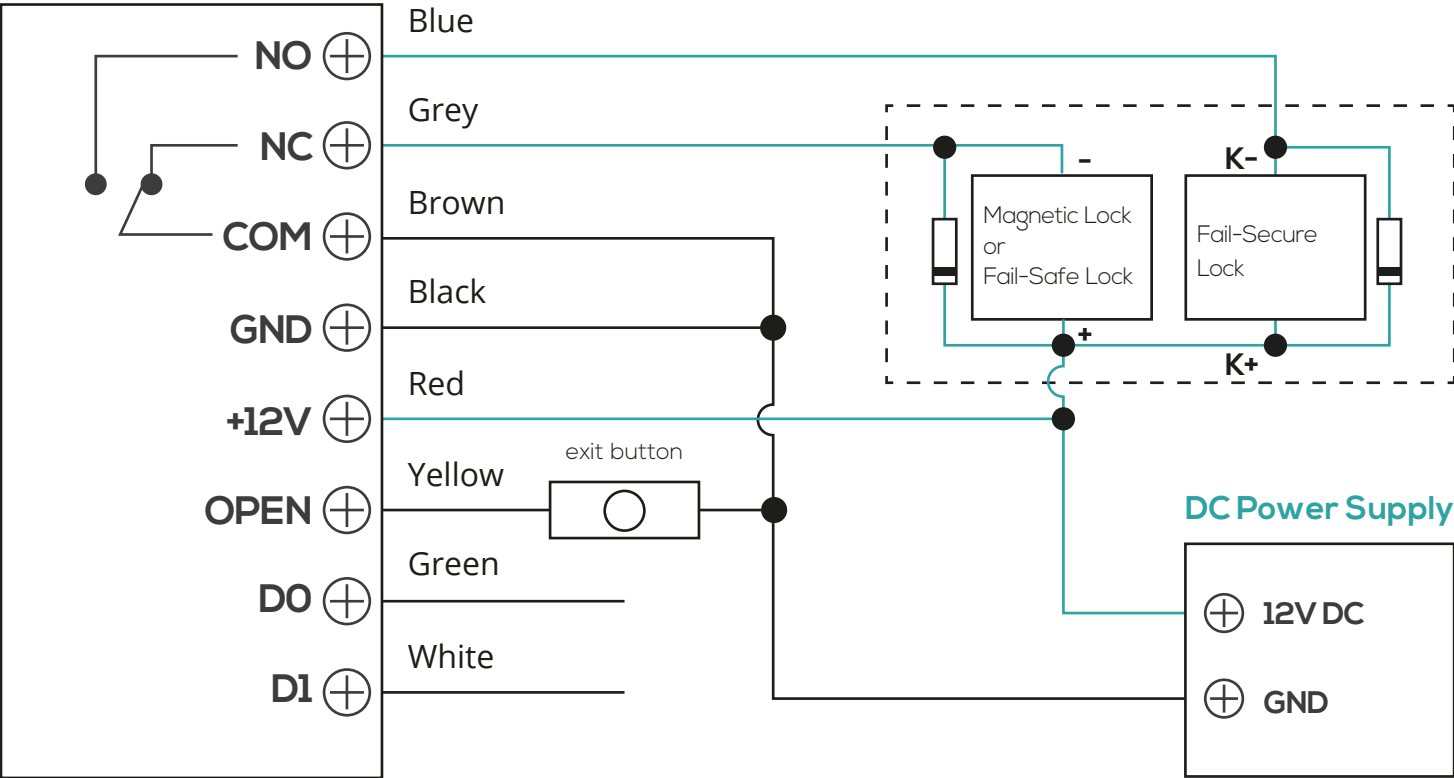
FUNCTION	KEYBOARD OPERATION
Enter and Exit Programming Mode	<i>Enter Programming Mode: * (Master Code) #</i> Default Master Code: 123456 <i>Exit Programming Mode: *</i>
Change Master Code	0 (New Master Code) # (Repeat New Master Code) # Code Length: 6 digits
Add Card	1 (Swipe Card) # * Cards can be added continuously
Add Code	1 (Code) # * Code length : 4~6 digits, except 8888
Delete User	2 (Swipe Card) # * 2 (Code) # *

Use Master Card to Add and Delete users

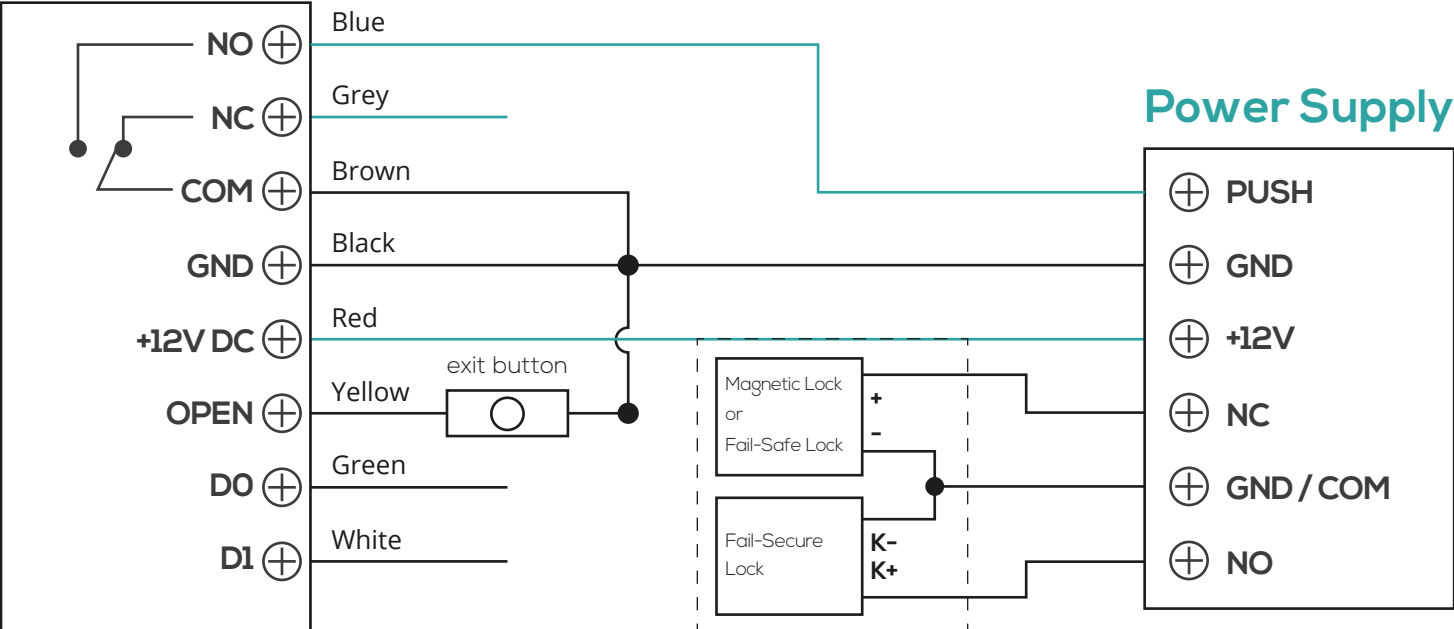
Add	Swipe Master Card Enter ID Code or Read ID Card (repeat step for more users) Swipe Master Card again
Delete	Swipe Master Card Twice, within 5 seconds Enter ID Code or Read ID Card (repeat step for more users) Swipe Master Card again

To use a common power supply, it is necessary to use a 1N4004 diode or equivalent, otherwise the access control can be damaged. 1N4004 is included with the product.


Diodo 1N4004



Access Control Power Source



Keyboard Transmission Format - Virtual Card Number
 The reader transmits the PIN code data as soon as the # after the code is typed on the keypad.
 Ex.: PIN code - 999999. Type 999999# and the output format will be 009999999.

Controller

Power

Wiring Diagram:

- NO** (+) → Blue
- NC** (+) → Grey
- COM** (+) → Brown
- GND** (+) → Black
- +12V** (+) → Red
- OPEN** (+) → Yellow
- DO** (+) → Green
- D1** (+) → White

Controller Connections:

- GND** (diagonal line) → GND
- V+** (diagonal line) → V+
- DO** (diagonal line) → DO
- D1** (diagonal line) → D1

Power Connections:

- V+** (diagonal line) → V+
- GND** (diagonal line) → GND

TW-EH3 supports 26-bit or 34-bit Wiegand inputs (bits automatically identified), which means that you can connect an external Wiegand device with 26/34 bits output, as well as an EM 125KHz or 13.56MHz Mifare Card reader.

The diagram illustrates the wiring for a fail-safe lock system. On the left, a terminal block provides connections for DO (+), D1 (+), OPEN (+), +12V DC (+), GND (+), NO (+), COM (+), and NC (+). These are connected to a central control unit with terminals DO, D1, GND, and V+. The control unit is also connected to a 'fail-safe lock' and a 'fail-secure lock'. A 'Power Source' section shows a DC 12V / 3A supply with terminals NC, COM, NO, +12V, GND, and PUSH. The +12V and GND terminals are connected to the lock units. An 'exit button' is connected between the D1 and GND terminals.



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Garantia

Nome do Cliente: _____

Contacto cliente: _____

Data de compra: _____

Produto: _____

Modelo: _____

Nota:

1) por favor, guarde este manual para que possa usá-lo quando você precisar de serviço de garantia.

2) a garantia tem a validade de dois anos a partir da data da compra.

3) Os equipamentos são garantidos por dois anos, a partir da data de compra, contra defeitos de fabrico. Não se encontram ao abrigo da garantia, avarias provocadas por deficiente utilização do sistema, deficiente instalação eléctrica não verificada pela Triplo W, catástrofes naturais – tais como: trovoadas, inundações ou outras da mesma espécie, bem como a substituição de componentes de desgaste dependente do uso.

Carimbo e Assinatura do Revendedor