Codetastatur C1000

Mykey - Art. Nr: 480000 (sort), 480001 (hvid)
Classic - Art. Nr: 482000 (sort), 482001 (hvid)

User manual

CE

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1. Introduction

C1000 is a flexible keypad and Mifare reader in one unit for many different applications.

In standby the yellow LED is lit (● ○ ○)
By correct code the yellow and the green LED lights (● ● ○)
By incorrect code the red LED is lit (○ ○ ●)

C1000 has a buzzer for indicating while keying, correct code, incorrect etc. and 2 transistor outputs, independant from each other, so the C1000 can give access by code. The C1000 is a stand alone unit, the can be programmed directly by Master code and Service code.

2. Installation

Mount the reader on a even surface. (use the following drill template for precise fitting).

Connect the wires to power supply, door strike, assembly board etc.

Colour scheme

Red: 9 - 25V DC /30mA
Black: 0V GND
Yellow: Output 2 (open collector, max. 500mA) 0V active
White: Output 1 (open collector, max. 500mA) 0V active
Orange: External controlling red LED, 0V active
Green: External controlling green LED, 0V active
Blue: REX, 0V active
Brown: High security / external buzzer

Note: Right after applying the voltage all the LED's lights and the buzzer sounds **do not** touch the reader untill the yellow LED lights and the buzzer is silent.

See connection examples on the last page.

3. Programming users

Programming the C1000 is simple and easy to understand.

3.1 User positions

C1000 has 200 positions for codes. The positions are divided as following:

User position	Function
1 - 100	Activates output 2 (the code in position 1 is **1234** - default)
101 - 150	Activates output 1
151 - 190	Activates output 1 and 2
191 - 200	Reserved for special functions

3.2 Programming user codes

The Master code is used to program/change/delete the users. By default the Master code is **4711**.

LED indication: No light: o   Light: ⊙   Flash: ✳   Clear buffer: 🔔
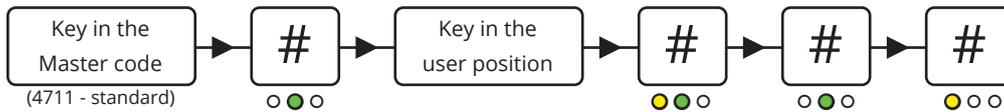
New users
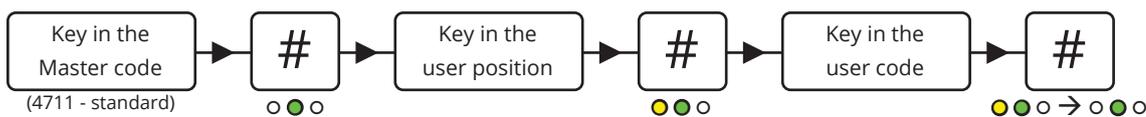
To program more users, continue from "key in the user position" or press # to exit.

Changeing user codes
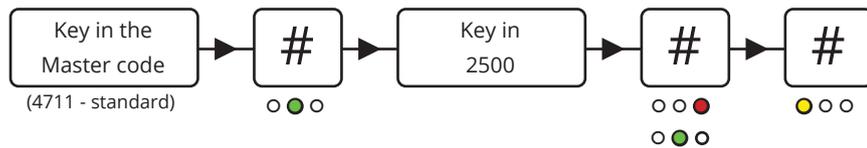
It's the same procedure as programming new users, just overwrite the user positions.

Delete specific users

Key in the Master code (4711 - standard)	→	#	→	Key in the user position	→	#	→	#	→	#

Delete all users

Key in the Master code (4711 - standard)	→	#	→	Key in 2500	→	#	→	#

3.4 Programming codes/Mifare tags for special functions

Programming the codes is described in 3.2. This entry activates the output(s) for 5 seconds (factory setting). Only 1 user can enter at the time.

Programming the same user twice
By programming the same code on the same position twice toggles the output.
(Ie. the code is entered to unlock the door and entered to lock it again).

Programming the same user 3 times
By programming the same code on the same position 3 times, the output is designated as switch on only.
(Ie. the door is permanently unlocked when the code is entered).
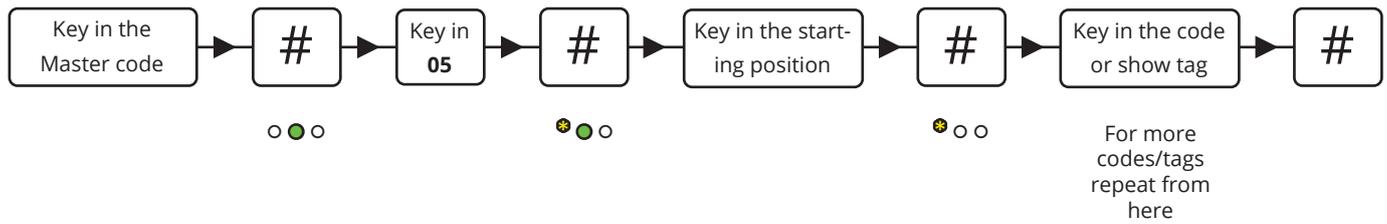
Programming the same user 4 times
By programming the same code on the same position 4 times, the output is designated as switch off only.
(Ie. the door is only locked when the code is entered).

3.5 Smart reading

This position makes it possible to program codes quicker without entering new positions. Key in a position and it counts automatically to the next position. Codes can be programmed alternatively as you see fit.

Key in the Master code	→	#	→	Key in 05	→	#	→	Key in the starting position	→	#	→	Key in the code or show tag	→	#

○●○　　　　　❋●○　　　　　❋○○

For more codes/tags repeat from here

Note: This programming mode overwrites existing positions.

4. Configuration of C1000

4.1 The Service code

The Service code is used for C1000's advanced settings such as changing the Master code, Service code, LED indications and much more. The overview of the settings and the factory settings can be seen in 4.2 *Configuration overview*.

The Service code is **12347890** (factory setting).

Note: Before the Service code can be used the voltage must be turned <u>OFF</u> and <u>ON</u> (the Service code can now be entered within 10 seconds).

After entering the Service code the reader is in programming mode (the green LED lights). Each time a setting is made the C1000 goes back to the previous point and the next setting can be made.

The navigation is by entering the position/ value followed by **#**.

4.2 Configuration overview

Position	Setting	Factory default
00	Master code (1 til 8 cifre)	4711
01	Service code (1 til 8 cifre)	12347890
02	LED indications	Normal = Yellow, active = Yellow and green
03	Outputs	Output time for 1 and 2 is 5 seconds
04	Special functions	
05	Smart reading	
06	Background light	
08	Backup/cloning the settings	
2500	Alle codes on the user positions are deleted	
0250	Reset to factory default	

4.3 Change the Master code

By default the Master code is **4711** and can <u>only</u> be used to program, change or delete users on the C1000.
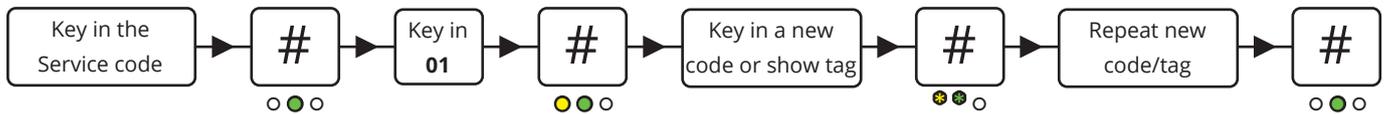
To change the Master code, enter the following:
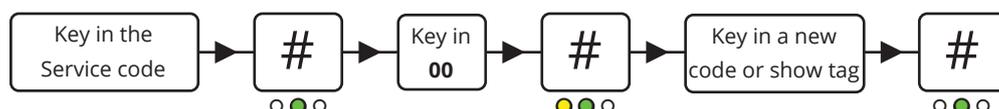
4.4 Change the Service code

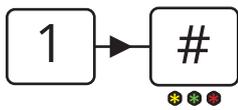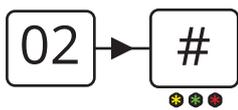The Service code is used to configurate the C1000's settings.

To change the Service code, enter the following within 10 seconds after power on:
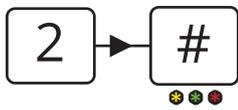
| Key in the Service code | → | # | → | Key in 01 | → | # | → | Key in a new code or show tag | → | # | → | Repeat new code/tag | → | # |

4.5 LED indications

The C1000's 3 LED's can be adjusted at will.

To adjust the LED indications enter the following:

| 02 | → | # |

| 1 | → | # | adjust the LED's for standby indication (normal).

| 2 | → | # | adjust the LED's for correct code/tag indication (active).
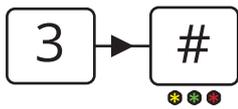
| 3 | → | # | adjust the keying indication (how the LED will react while keying).

To adjust the LED's press on the following:

| 1 | = yellow LED (toggle by press)

| 2 | = green LED (toggle by press)

| 3 | = red LED (toggle by press)

| 0 | = buzzer (works only on active and keying indication (toggle by press))
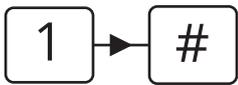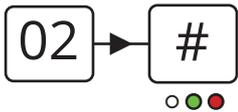
| # | = save and go one step back

To save the settings press | # | or press | 🔔 | / | ✱ | to go back to the previous point (not saving).

4.6 Outputs

The C1000 has 2 transistor outputs, which both are activated for 5 seconds (factory default) when a correct code is entered. The output activation time can be changed and inverted.
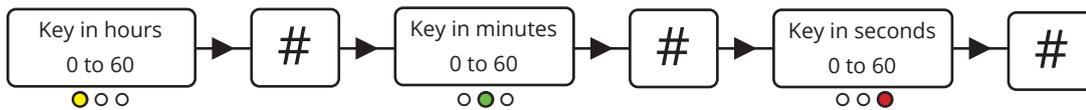
To cahnge these settings key in:

| 02 | → | # |

○●●

| 1 | → | # | acitvation time for output 1 (white core)

| 2 | → | # | activation time for output 2 (yellow core)

The time is set as:

| Key in hours 0 to 60 | → | # | → | Key in minutes 0 to 60 | → | # | → | Key in seconds 0 to 60 | → | # |

●○○   ○●○   ○○●

If no value is entered in *hours*, *minutes* or *seconds* is the value automatically 0 (which corresonds to set the output as toggle).

| 3 | → | # | bonding the positions and output 1

| 4 | → | # | bonding the positions and output 2

Both outputs are bonded to specific positions. By factory default positions 1 to 100 are bounded to output 2 and positions 101 to 150 to output 1.
The value can <u>not</u> be crossed.

| 5 | → | # | inverted outputs

| 1 | output 1 (●○○ = inverted / ○○○ = not inverted)

| 2 | output 2 (○●○ = inverted / ○○○ = not inverted)

To save the settings press | # | or press | 🔔 | / | * | to go back to the previous point (not saving).

4.7 Special settings

These settings is used to change the C1000's special functions such as turning the buzzer on/off, enable High Security etc..

To change these settings, key in: | 04 | ► | # |

○ ○ ○

| 1 | = Service code without timeout (● = inactive / ● = active)

| 2 | = Master code be changed by Master code (● = inactive / ● = active)

| 3 | = Mute reader (● = off / ● = on)

| 4 | = Brown wire function (● = external buzzer / ● = High Security)

| 5 | = High Security (● = inactive / ● = active)

| 6 | = Bell/star key (● = delete non-finished codes / ● = activates output 1*)

When the bell/star key is set to activate output 1 can codes and Mifare tags <u>only</u> activate output 2.

High Security
High Security increases the C1000's security by ensuring 2 positions have to be activated before the output is activated (the positions must be next to each other).

Special positions
On positions 191 to 194 special functions can be activated by code. The programming is like programming a new user.

191 = No buzzer
192 = Input 1 (brown wire) function (High Security or external buzzer)
193 = High Security
194 = Bell/star key function (activates output 2 by press)

To save the settings press | # | or press | 🔔 | / | ✱ | to go back to the previous point (not saving).

Note: A power cucle puts the functions back to the settings made by the Service code.

5. Blocking

The C1000 is blocked for 1 minute after 4 incorrect codes.

LED indication: ○○●

6. Manual reset

The C1000 can be reset to factoty default manually.

• Turn the voltage off.
• Connect the yellow and brown wire.
• Turn the voltage on (9 - 25 V DC) the readers LED's lights and the buzzer sounds.
• Turn the voltage off and disconnect the yellow and brown wire.

The C1000 is now reset to factory default and the user codes/tags are deleted.
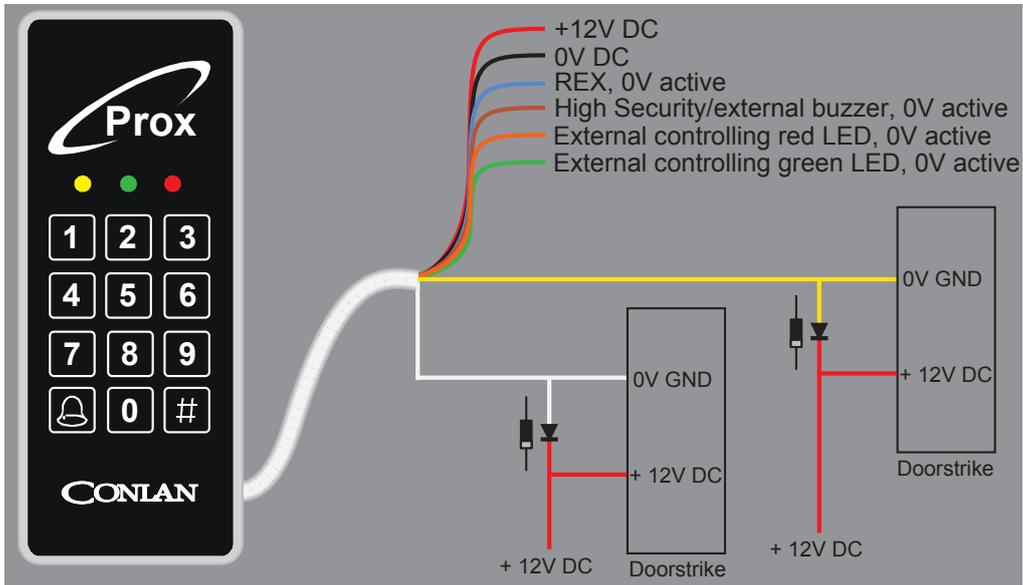
7. Technical specifications

Voltage: By 12V DC, 30mA
Voltage range: 9 - 25V DC
Mifare reading: Max. 50 mm
Output: 2x open collector, max. 500mA
Input: External buzzer/High Security (brown) and REX, 0V active (blue)
Rang: IP67
Color: Black or white
Cabel: 2,5 meter white, 8 cores
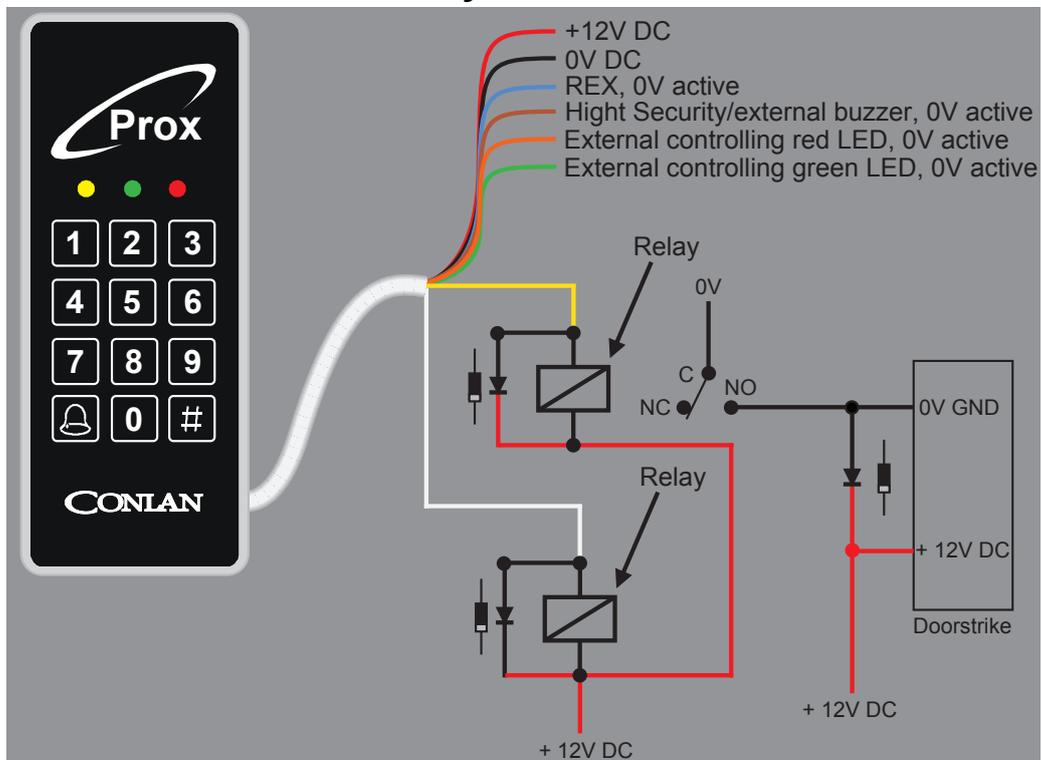Size (HxBxD):   130x50x8 mm

9. Connection examples

Direct connection

Relay connection

Thank you for choosing Conlan's products.
For technical support, call: +45 72 40 62 32