CONLAN
double security systems

Keypad

CT 1000

Art. No.: 460100

User's Manual

CE

Conlan ApS - Speditørvej 2A - DK-9000 Aalborg - Tel: +45 72 40 60 03 - Fax: +45 96 32 00 22
www.conlan.dk - info@conlan.dk

Introduction

CT 1000 is a flexible keypad for applications in very different fields: At normal work the yellow LED is lit (the left one). Activation by a confirmed code (code followed by #), the yellow and the green LED are lit for the activation time. If not confirmed... the red LED is lit shortly. There is a buzzer integrated also for indication, either confirmed/not confirmed code (2 different sounds). Additional the buzzer can be activated directly by GND on the brown wire. At 4 wrong codes, the keypad is blocked for 1 minute(red LED flashing). The codes are stored in the positions from 1 to 28. At delivery the code 1234 is programmed into pos. 1. The Mastercode (MC) is default 4711. Codes can be programmed, changed or deleted by the Mastercode.

Example to a code overview for CT 1000

Position:	Code:	Name:	Position:	Code:	Name:	Position:	Code:	Name:	Position:	Code	Name:
1	1234		8			15			22		
2			9			16			23		
3			10			17			24		
4			11			18			25		
5			12			19			26		
6			13			20			27		
7			14			21			28		

Table 1

Programming the Codes:

1: Key in the MC# (green LED is lit)
2: Key in the pos. no. #, (from 1 to 28)
3: Key in the code # (from 1 to 8 digits)
For more codes repeat from point 2.

Change the codes:
Follow the above - it is just to overwrites the codes.

Delete the codes:
Follow the above. Under 3 just key # then the key is deleted.

Delete all codes:
Key in the MC# 2500# - all user codes are then deleted.

Exit the programming mode:
Time up is 10 sec. Automatically exit 10 sec. after the last key in.
Alternative key in #.

Examples:

Ex. 1: 4711# 2# 345678# followed by #. The code 345678 is now active, placed in pos. 2.
Ex. 2: 4711# 2# 897# followed by #. The code 897 is now active, placed in pos. 2.
Ex. 3: 4711# 2# #, The code is now deleted.
Ex. 4: 4711# 2500# - All user codes is now deleted.

Installing your new CT 1000 keypad:

Wire Color Keypad - Inst	Function	Description
Red	+12 V DC	Power supply, 9 – 17 V / 30 mA
Black	0 V, GND	Power supply
Yellow	Open Collector output, 500 mA. 0 V active	Output for door opening, relay, alarm etc.
Green	0 V active green LED	External controlling
White	Output, 500 mA	Output for bell/codes
Brown	Buzzer/Hold/Lock	External controlling, 0 V active
Orange	0 V active red LED	External controlling, 0 V active
Blue	0 V active, for REX.	Extern controlling of output (white)

Table 2

Advanced options in the CT 1000 keypad:

Generally it is the installer who is setting up the parameters/programming of the keypad.
For the programming there is the default values for:
Servicecode (SC) 12347890, placed in pos. 01.
Mastercode (MC) 4711, placed in pos. 00.

RESET: SC# 0250# - The keypad is now back in the factory default. (SC works only after a power outage)

Manual RESET of the CT 1000: Make a shot circuit between the yellow and the brown wire. Connect the power. Remove the short circuit. Now the keypad is back to factory default.

Examples:

Ex. 1: SC#, 00#, 47899#, # - 47899 is now active as MC.
Ex. 2: SC#, 01#, 151618#, # - 151618 is now active as SC
Ex. 3: SC#, 0250#, # - The keypad is back to factory default.

Set up by servicecode (SC):

Generally: The MC is to programming/delete/change the user codes..
MC gives access to pos. 1 – 28 where the user codes is placed.
SC gives additional access to the following positions:
NB: SC works only after a short power outage.

CONLAN
double security systems

Configuration of the keypad:

Overview and options by the SC (Servicecode):				Programming	
				Key in SC followed by # etc.	
Position	**Default**	**Function**	**Description**	**Programming**	**New value**
00	**4711**	**Mastercode (MC)**		00 #	nnnnnnnn#
01	**12347890**	**Servicecode (SC)**		01 #	nnnnnnnn#, nnnnnnnn#
02 (see *)	**31**	**LED settings**	**Yellow as normal. Yellow, green as active**	02 #	nn# see *
03 (see **)	**5**	**Output time for the pulse length**	**Output (white), for bell/codes**	03 #	0 = toggle, n in sec.
04 (see **)	**5**	**Output time for the pulse length**	**Output (yellow) for door etc.**	04 #	0 = toggle, n in sec/min
05 (see ***)	**0**	**Setting of functions**	**Variables for buzzer, Hold, SC etc.**	05 #	nnn # see **
06 (see +++)	**29**	**Activation of output for bell/codes**	**Output for bell (29), codes>XX**	06 #	nn # see +++

Table 3

***: Explanation to position 02: LED indication/lighting** (default = 31)
By choosing the nn (table) the LED lighting for NORMAL and ACTIVE (approved code) is as following:

Value in nn	Yellow LED	Green LED	Red LED
NORMAL	01	02	04
ACTIVE	10	20	40

Table 4

Example: Default in pos. 02 = 31 (it is 01 + 10 +20). 01 for yellow in NORMAL.
10 + 20 for yellow and green in ACTIVE.
Example 1: NORMAL green. ACTIVE red. It is 02 + 40 =42
SC# 02# 42#, #. It is working now.
Example 2: NORMAL nothing. ACTIVE yellow. It is 0 + 10 = 10
SC# 02# 10#, #. It is working now.

****: Explanation to pos. 04: Length of output time (from 0 to 100 in sec./101-109 in min., e.g. 104 = 4 min.)**
Default 04 = 5 (it is 5 sec.). Pulse length 5 sec.
Example 1: Output active for 60 sec.: (It is 60)
SC# 04# 60#, #. It is working now.
Example 2: Output active for 6 min.: (It is 106)
SC# 04# 106#, #. It is working now.
Example 3: Output as toggle (on/off): (It is 0)
SC# 04# 0#, #. It is working now.
****: Explanation to pos. 03: The keypad has 2 outputs.** Output (white) can be activated by bell or codes.
See pos. 6+++. In pos. 03, the time can be set. 0 = toggle, n in sec.
Example: 03# = 8, the white output will be active in 8 sec.

*****: Explanation to pos. 05: Buzzer, toggle, SC cond, Hold etc.**
Default 05 = 00: It is buzzer on and all other in off mode

Value in nn	ON	OFF
Buzzer	0	1
Toggle mode, (for 8 digit codes)	2	0
SC: Power on/off for function.	4	0
Output (yellow) inverted	8	0
Hold function (in 1 min.)	16	0
Lock L2H	32	0
Lock H2L	64	0
4 digit code without #	128	0

Table 5

Add the number for programming.
Example 1: No buzzer (1) and toggle for 8 digit codes (4).
Value for programming: 1 + 2 = 3.
SC# 05# 5#, #. It is working now.
Example 2: Buzzer on, Lock H2L on. (The output stops for 0 V active).
SC# 05# 64#, #. It is working now.
Example 3: Buzzer on, Hold on (within 1 min. the output can be activated, 0 V active).
SC# 05# 16#, #. It is working now.

+++:Explanation to pos. 06: Programming from where the (white) output has to be controlled:
Default 04 = 29, all codes control the yellow output and the bell controls the white output. There is 28 pos. for codes.
The first will always control the yellow output. For 06 = 18, the codes from 1 to 18 controls the yellow output.
From pos. 19 to 28 will control the white output.

Specifications:

Voltage:	+ 9 – 17 V DC, 30 mA.
Output (yellow core):	max. 500 mA.
Output (white core):	max. 500 mA.
External controlling buzzer, red and green LED	
External controlling buzzer, Hold and Lock	
Operating temperature:	-30° C to + 80° C.
Humidity:	100%, IP 67.
Color:	Black, (optional white).
Dimensions (H x W x D):	130 x 50 x 8 mm.
Cable:	2,5 meter, white 8 core.

CONLAN
double security systems

Programming overview

Programming with Mastercode (MC (4711))

- Enter new codes.
- Changing codes.
- Delete codes (see page 2).

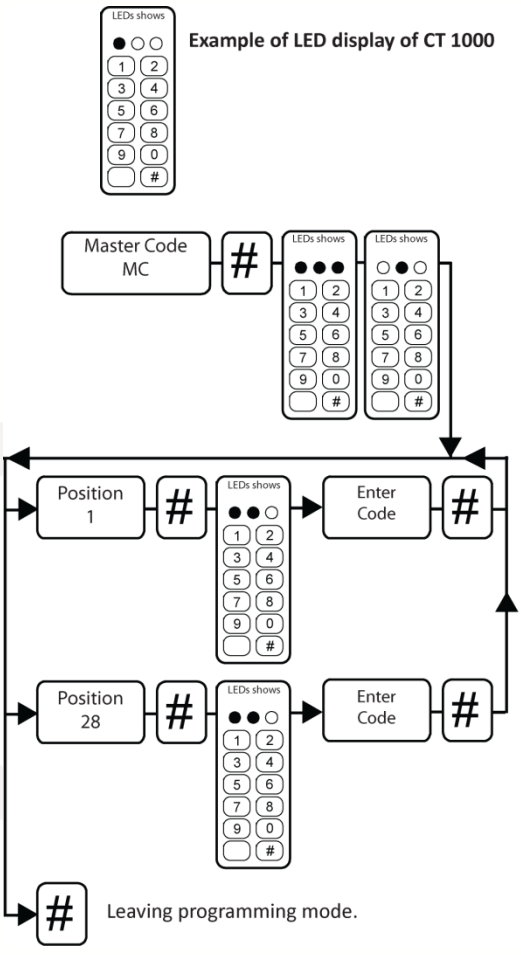

Figure 1

Programming with Servicecode (SC (12347890))

With SC you controlling the positions 00 to 06 (see page 3).

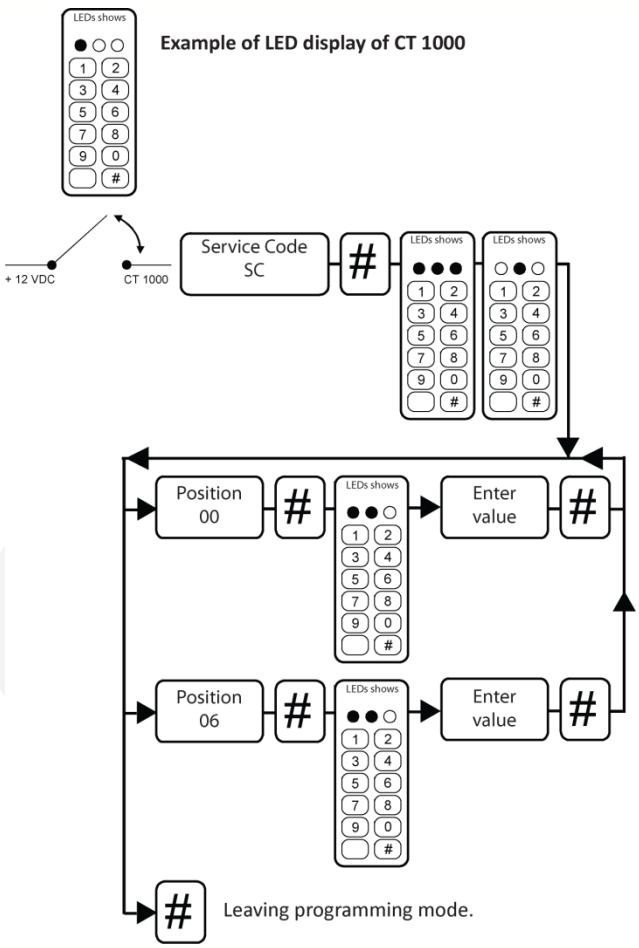

Figure 2

Other products in the family 1000:

Art. No.:	**460100**	**CT 1000**	**Keypad**
Art. No.:	**460101**	**PR 1000**	**Proximity reader**
Art. No.:	**460160**	**CP 1000**	**Code-Prox reader**
Art. No.:	**460300**	**BT 1000**	**Bluetooth reader**
Art. No.:	**460190**	**BioTag Home**	**Fingerprint reader**
Art. No.:	**460085**	**CVT1**	**Assembly box**
Art. No.:	**460089**	**CVT3**	**Assembly box with 1 relay**
Art. No.:	**460090**	**CVT6**	**Assembly box with 1 relay**
Art. No.:	**460099**	**CVT6,2**	**Assembly box with 2 relays And timer function**

Thank you for choosing Conlan's products.

Please contact our support service for further information whenever needed.

Conlan ApS - Speditørvej 2A - DK-9000 Aalborg - Tel: +45 72 40 60 03 - Fax: +45 96 32 00 22
www.conlan.dk - info@conlan.dk