Keypad
CT1000
Art. No.: 460100 (black)
Art. No.: 460106 (white)

User Manual
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1. Introduction

CT1000 is a flexible keypad for many different applications.

In standby the yellow LED is lit (● ○ ○)
Correct code lights the yellow and the green LED (● ● ○)
Incorrect code lights the red LED (○ ○ ●)

CT1000 has a buzzer for indicating while keying, correct code, incorrect etc. and 2 transistor outputs with open collector for controlling of locks etc.
CT1000 is a stand alone unit, that can be programmed directly by Master Code and Service Code.

2. Installation

• Mount the reader (use the drilling guide for proper alignment).
• Connect the wires to the power supply, lock unit, assembly box etc.
• Apply voltage 9 VDC, max. 25 VDC.

Note: Right after applying the voltage all LED’s light and the buzzer sounds do not touch the reader untill the yellow LED lights and the buzzer is silent.
3. Programming Users

3.1 Positions

CT1000 has 28 positions, which can contain a code from 1 to 8 digits. The code in position 1 is **1234** (default).

3.2 Programming the User Codes

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

LED indication: No light: ○ Light: ● Flash: * Clear buffer: 

**New users**

- Key in the Master Code
- # Key in the position
- # Key in the user code
- #

To program more users, continue from “Key in the position or type # to exit.

**Changing codes**

It’s the same procedure as programming new users, just overwrite the positions.

**Delete specific users**

- Key in the Master Code
- # Key in the position
- #
- #

**Delete all users**

- Key in the Master Code
- # Key in 2500
- #
4. Advanced settings

4.1 Service Code

The Service Code is used for CT1000’s advanced settings such as changing the Master Code and Service Code, LED indication 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 default).

**Note:** Before the Service Code can be used the voltage must be turned off and on (the Service Code can no.

After entering the Service Code the reader is in programming mode (the green LED lit).

Each time a setting is made, the CT1000 goes back to the previous point and the next setting can be made. The navigation is by entering the configuration number and #

4.2 Configuration Overview

<table>
<thead>
<tr>
<th>Config. no.</th>
<th>Setting</th>
<th>Default</th>
</tr>
</thead>
<tbody>
<tr>
<td>00</td>
<td>Master Code (1 to 8 digits)</td>
<td>4711</td>
</tr>
<tr>
<td>01</td>
<td>Service Code (1 to 8 digits)</td>
<td>12347890</td>
</tr>
<tr>
<td>02</td>
<td>LED indication</td>
<td>31</td>
</tr>
<tr>
<td>03</td>
<td>Output time (white)</td>
<td>5</td>
</tr>
<tr>
<td>04</td>
<td>Output time (yellow)</td>
<td>5 (for codes)</td>
</tr>
<tr>
<td>05</td>
<td>Function settings</td>
<td>0</td>
</tr>
<tr>
<td>06</td>
<td>Activation with codes/bell</td>
<td>29</td>
</tr>
<tr>
<td>2500</td>
<td>All codes on position 1 to 28 is deleted</td>
<td></td>
</tr>
<tr>
<td>0250</td>
<td>Reset to factory default</td>
<td></td>
</tr>
</tbody>
</table>

4.3 Changing the Master Code

By factory is the Master Code **4711** and can only be used to program, change or delete users on the CT1000.

To change the Master Code, enter the following:

1. Key in the Service Code
2. Key in #
3. Key in 00
4. Key in #
5. Key in a new code
6. Key in #
4.3 Changing the Service Code

The Service Code is used to configure the CT1000’s settings.

To change the Service Code, enter the following:

Key in the Service Code # Key in 01 # Key in a new code # Repeat new code #

4.5 LED Indication

CT1000’s 3 LED’s can be adjusted at will.

Put the desired values together (e.g. YELLOW as normal, YELLOW and GREEN as active: 01+10+20 = 31) and key them in under “Key in value”.

<table>
<thead>
<tr>
<th>Normal</th>
<th>Yellow LED</th>
<th>Green LED</th>
<th>Red LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>02</td>
<td>04</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>20</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

To change the LED indication, enter the following:

Key in the Service Code # Key in 02 # Key in value #

After you have entered # the next setting can be changed, to leave the programming mode enter # again or wait 10 seconds.

4.6 Output Time

CT1000 has 2 transistor outputs (yellow (04) and white (03) wire), which both are activated in 5 seconds (factory default) by correct code, the activation time can be changed.

The values are divided like this: 1 - 100 in seconds (e.g. 5 = 5 seconds, 101 - 199 in minutes (e.g. 105 = 5 minutes) and 0 is toggle.

To change these settings, enter the following:

Key in the Service Code # Key in 03 / 04 # Key in value #

After you have entered # the next setting can be changed, to leave the programming mode enter # again or wait 10 seconds.
4.7 Function Settings

These settings is used to change CT1000’s function e.g. to use the Service Code without power down and up, mute the buzzer etc.

The overview below shows the values for the different functions.

<table>
<thead>
<tr>
<th>Function</th>
<th>On</th>
<th>Off</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buzzer</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Toggle mode for 8 digits codes</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Service Code with power on/off</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Output (yellow wire) inverted</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>Hold function</td>
<td>16</td>
<td>0</td>
</tr>
<tr>
<td>Lock L2H</td>
<td>32</td>
<td>0</td>
</tr>
<tr>
<td>Lock H2L</td>
<td>64</td>
<td>0</td>
</tr>
<tr>
<td>4 digits code without # (rolling code)</td>
<td>128</td>
<td>0</td>
</tr>
</tbody>
</table>

Put the desired values together and enter them in “Key in value”.

To change the function settings, enter the following:

```
# Key in value #
```

4.8 Activating the Output with Codes/Bell

This function is by default set that all codes activate the yellow output and the bell key activates the white output (value = 29). If the white output also should activate by codes key in 1 to 27 as value, it is the position after the entered value that starts to activate the white output.

To change theses settings, enter the following:

```
# Key in value 1 to 27 #
```

It is the position after the entered value that starts to activate the white output.
5. Blocking (Duress)

The CT1000 is blocked for 1 minute after 4 incorrect codes.

Indication: ○ ○ ●

6. Manuel Reset

CT1000 can be reset to default settings manually.

Turn off the voltage, connect the yellow and brown wire, turn the power on again and the readers LED's light and the buzzer sounds. When only the yellow LED is lit and the reader is silent, turn off the power and separate the yellow and brown wire.

The CT1000 is now reset to default and the user codes are deleted.

7. Technical Specifications

- Voltage: 12 VDC, 30 mA
- Voltage interval: 9 - 25 VDC
- Output (yellow core): Max. 500 mA
- Output (white code): Max. 500 mA
- External controlling green and red LED
- External controlling buzzer, Hold and Lock
- Protection rate: IP67
- Color: Black or white
- Dimensions (HxWxD): 130x50x8 mm

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