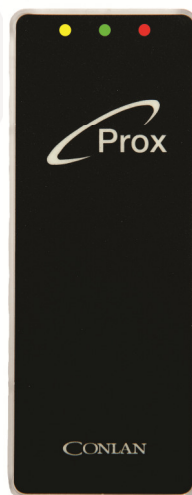# Proximity Reader

## PR 1000

**Art. no.: 460101**

## User's Manual



CE

# Introduction

PR 1000 is a flexible Proximity Reader for a lot of applications: At normal working is the yellow LED lit (the left one). Activation by a confirmed Transponder/Card, the yellow and the green LED are lighting for the activation time. If not confirmed… the red LED is lighting shortly.
There is a buzzer integrated also for indication, either confirmed/not confirmed Transponder/Card (2 different sounds). Additional the buzzer can be activated directly by GND on the brown wire.
The Transponder/Cards (TR) are stored in positions from 1 to 1000. At delivery all positions are empty. The first TR shown after power up will be the Master Transponder (MT). The next shown will be Control Transponder (CT). Now is the PR 1000 ready for programming User Transponders.

## Transponders/Cards for PR 1000

| Position: | Transponder: | Name: | Position: | Transponder: | Name: |
|-----------|-------------|-------|-----------|-------------|-------|
| 00 | MT | | 22 | | |
| 0 | CT | | 23 | | |
| 1 | UT 1 | | 24 | | |
| 2 | UT 2 | | | | |
| 3 | UT 3 | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |
| 9 | | | | | |
| 10 | | | | | |
| 11 | | | | | |
| 12 | | | | | |
| 13 | | | | | |
| 14 | | | | | |
| 15 | | | | | |
| 16 | | | | | |
| 17 | | | | | |
| 18 | | | | | |
| 19 | | | | | |
| 20 | | | | | |
| 21 | | | 1000 | | |

## Programming the Transponders/Cards (TR) *pulse*:

Show the MT 1 time (yellow LED is flashing (PR 1000 is now in programming mode)), show a new TR, will be confirmed by sound and flashing. Show the next etc. – there is space for 1000 TR. All TR will be stored from position 1 and the following numbers up. The time up for programming mode is approx. 10 seconds after every programming. The programmed Transponder will activate the output for approx. 5 seconds (pulse).

## Programming the Transponder (TR) *toggle*:

Show the MT 2 times after each other (MT2) (green LED flashing). Show a new TR, will be confirmed by sound and flash. The TR programmed will activate the output as a toggle. The positions can be mixed up for either pulse/toggle UT's. All TR will be programmed on the first free space in the positions.

## Delete UT:

Show the MT 3 times (red LED flashing). Show the User Transponder(s) you wish to delete. That/those position(s) are now free.

## Delete a TR not present:

Show the MT 4 times (green and red LED flashing). Show the UT programmed just before that TR you want to delete E.g.: TR 12 has to be deleted. Show the MT 4 times – show the UT from position 11 and TR 12 is now deleted. Position 12 is free now. E.g.: Delete UT 13 – show the MT 4 times – show UT from position 11 etc. NB: All new programmed UT will be stored on the first free places.

## Delete UT on position 1:

Show the MT 5 times (all LED flashing). The UT on position 1 is now deleted.

## Installing your new PR 1000 Proximity Reader:

| Wire color<br>Inst  -  Prox | Function | Description |
|---|---|---|
| Red | +12 V DC | Supply, 9 – 17 V / 30 mA |
| Black | 0 V, GND | Supply |
| Yellow | OC output, 500 mA.<br>0 V active | Output for door opening, relay, alarm etc. |
| Green/white | Sabotage loop | Short cut in the Keypad |
| Brown | 0 V active Buzzer/Hold | Extern controlling/Hold function |
| Orange | 0 V active red LED | Extern controlling |
| Blue | 0 V active, for REX.<br>REX- time as for pulse | Output for door opening, relay, alarm etc. |

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# Advanced options in the PR 1000 Proximity reader:

Generally it is the installer who is setting up the parameters/programming of the Proximity reader.

## Reset the PR 1000

Make a short circuit between the yellow and the brown core. Connect the power. Remove the short circuit. Now is the Proximity Reader back in factory default. No MT, CT or TP is active. All is reset. Yellow LED is flashing. The first TR shown will be the MT. The next TR shown will be the CT. PR 1000 is now ready for programming the user transponders (Transponders up to 1000 places).

## Set up by the Control Transponder (CT):

The CT can be used in connection to the MT and all parameters can be set up as the following:

## Configuration of the Proximity Reader:

| | | | | Description | |
| --- | --- | --- | --- | --- | --- |
| Indication | Action | Indication | Action | Programming | New value |
| Ø O O | CT1 | -- Ø Ø | MT | Buzzer on/off, repaet | On = Ø, Off = O |
| -- Ø Ø | CT2 | -- -- -- | MT | Shift Locked Indication 1-8, repeat MT to choose | 1 – 8, see the LED indication 1 – 8 |
| -- -- -- | CT3 | -- -- -- | MT | Shift Unlocked Indication 1-8, repeat MT to choose | 1 – 8, see the LED indication 1 – 8 |
| -- -- -- | CT4 | -- ø O | MT | Not in function for PR 1000 | |
| -- ø O | CT5 | -- ø Ø | MT | Not in function for PR 1000 | |
| -- ø Ø | CT6 | -- O ø | MT | Not in function for PR 1000 | |
| -- O ø | CT7 | -- Ø ø | MT | Set OC output time | Time between CT7 and MT is pulse time 0 = toggle |
| -- Ø ø | CT8 | ø ø ø | MT | Save and Exit | All the chosen parameters will be saved and in function |
| ø ø ø | CT9 | | | Exit without save, same as time up | |

**\*: Explanation to the Indications: LED indication:** (default: Yellow for locked, yellow and green for unlock).

| Indication | Yellow LED | Green LED | Red LED |
| --- | --- | --- | --- |
| Ø O O | On | Off | Off |
| -- Ø Ø | Different | On | On |
| -- ø O | Different | Flash | Off |
| ø ø ø | Flash | Flash | Flash |

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# Examples for some settings:

Save new set up: CT8 – MT.
Leave programming without saving: Wait for time up. LED goes back to normal.

Examples:
UT = User Transponder, UT1 = User Transponder 1, etc.

Example 1:
MT1, UT1, UT2, UT3: 3 User Transponders are now programmed (for pulse). Placed in position 1 to 3.

Examples 2:
MT1, UT1, UT2, MT2, UT3, UT4: 2 User Transponders are now programmed (for pulse) and 2 for toggle.

Example 3:
MT1, MT2, MT3, UT3: Transponder 3 is deleted.

Example 4:
CT2, MT3: LED lighting for normal use is now changed to number **3** (as shown on the Proximity Reader)
CT4, CT5, CT6, CT7, CT8 and MT – then the setup is saved in the reader.

**Specifications:**

| | |
|---|---|
| supply: | + 9 – 12 V DC, 100 mA. |
| Output (yellow core): | max. 500 mA. |
| Output (white core): | max. 500 mA. |
| Extern controlling buzzer, red and green LED | |
| Extern controlling buzzer, hold og lock | |
| Temperature: | -30° C to + 80° C. |
| Humidity: | 100%, IP 67. |
| Color: | Black, optional white. |
| Dimensions (H x W x T): | 130 x 50 x 8 mm. |
| Cable: | 2,5 m, 8 core. |

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# Quick Guide to PR 1000:

### Step 1: How to program the Master and Control Transponders (the first step)

Present the 1. TR to the Prox spot. A beep sound can be heard and the 1. TR is now programmed as Master Transponder (MT).
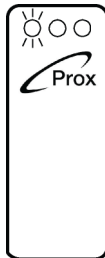
Now present the 2. TR on the same spot. The reader responds again with a beep sound and the 2. TR is program-med as Control Transponder (CT).
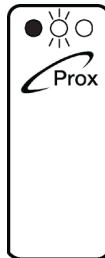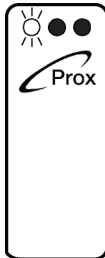
That's it you have now a MT to Program /delete user(s) TR(s) and a CT to configure the reader. The reader will go to normal mode after approx. 10 seconds.

### Step 2: Programming UT with pulse (the door is open limited time)

Present your MT one time on the Prox spot. Now is the reader ready to read User Transponders (UT).

Present the TR you want to program as UT. To program more UT's, just put another empty TR on the reader, that's all.
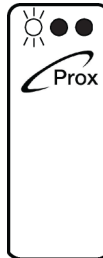
After you have programmed the TR's you want as UT's, wait approx 10 seconds and the reader is back to normal mode.
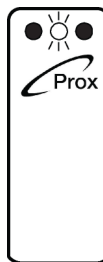
### Step 3: Programming UT as toggle (for instant access)

Present your MT two times on the Prox spot. Now is the reader ready to read UT (with toggle).

Present the TR you want to program as UT. To program more UT's, just put another empty TR on the reader, it's that simple.

After you have programmed the TR's you want as UT's with toggle, wait approx 10 seconds and the reader is back to normal mode.
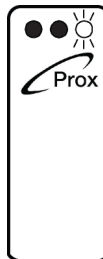
### Step 4: Delete UT

Present your MT three times on the Prox spot. Now is the reader ready to delete UT.

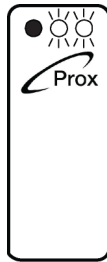Present the UT you want to delete. If you want to delete more UT's then repeat this.

After you have deleted those UT's you wanted deleted, wait approx. 10 seconds and the reader is back to normal mode.
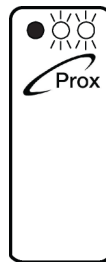
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## Step 5: Delete a missing/lost UT

Show you MT four times on the Prox spot. Now the reader is ready to delete a UT that is not present.

Show the UT that is one position lower than the UT you want to delete. (e.g. Position 12 need to be deleted, show the UT from position 11, if position 11 is free, so is it position 10 and so on).
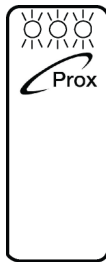
After deleting the UT wait approx. 10 seconds and the reader is back to normal mode.
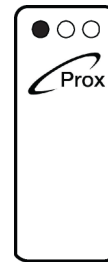
## Step 6: Delete UT on position 1

Show your MT 5 times, all LED is now flashing and the TR on position 1 is now deleted.

Wait approx. 10 seconds and the reader is back to normal mode.

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