

## Manual – PR 1000 – Prox Reader

PR 1000 is a flexible Prox Reader with many applications: In default factory mode the yellow (left) LED is flashing. Activation by a confirmed Transponder /Card, the yellow and the green LED are lit for the activation time. If rejected ... the red LED illuminates for a short period. If the Transponder /Card are set to toggle mode, the yellow and green will stay lit until the Transponder /Card is presented again to turn the output off. There is an integrated buzzer for indication of confirmed/rejected Transponder /Card (2 different sounds). Additionally the buzzer can be activated directly by taking the brown cable to ground.



The Prox Reader can be mounted directly to the surface with or without using the optional frame. The stainless mount plate assists with mounting on awkward surfaces.



Stainless steel plate



Wire Colour Keypad – Inst	Function	Description	
Red	+ 12 V DC	Supply, 9 - 17 V/ 100mA	
Black	0 V, GND	Supply	
Yellow	OC output, 500 mA. 0V active	Output for door opening, relay, alarm etc.	
Green/white	Sabotage loop	Short circuit in the Keypad	
Brown	0V activate buzzer	Hold to ground for buzzer	
Orange	0V active red LED	Hold to ground to activate Red LED	
Blue	0V active for RTE. RTE-time as for impulse	Request to Exit, Hold to ground to activate output	

Connect the Prox reader as per the diagram above. Ensure correct polarity and fit EMF suppression diode (supplied) to lock.

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## Transponder/Card User table

Pos	TR	Name	Pos	TR	Name	Pos	TR	Name
00	MT		21					
0	CT		22					
1	UT 1		23					
2	UT 2		24					
3	UT 3		25					
6			26					
7			27					
8			28					
9			29					
10			30					
11			31					
12			32					
13			34				1000	

### **Programming Master & Control Transponder/Cards (MT & CT):**

The Transponders/Cards (TR) are stored in positions from 1 to 1000. As default all positions are empty, yellow LED is flashing. When delivered all Transponders/Cards are the same. The 1<sup>st</sup> TR shown after power up will be the MT (Mastertransponder), lights change to solid yellow & flashing green. The next shown will be CT (Control Transponder) Quick flash red then solid yellow. Now the Prox is ready for programming user Transponders/Cards.

### **Programming Transponder/Cards (UT) to give impulse:**

Show MT 1 time (yellow LED now flashing, solid green and red) (The Prox is now in program mode), show a new UT, this will be confirmed by sound and flashing. Show the next etc – there is space for 1000 UT. All UT will be stored from pos 1 sequentially. The time up for programming mode is app 10 sec after every programming. The transponder programmed will activate the output for app 5 sec. (Impuls)

Example 1:

**MT1, UT#1, UT#2, UT#3: 3 User Transponders are now programmed (for impulse). Placed in pos 1 to 3.**

### **Programming a Transponder (UT) to toggle output:**

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

Example 2:

**MT1, UT#1, UT#2 , MT2, UT#3, UT#4: 2 User Transponders are now programmed (for impuls) and 2 for Toggle (UT3&UT4).**

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## **Delete UT: (If you have the UT)**

Show MT 3 times (red LED flashing). Show the UT/UT's you wish to delete. These positions are now free.

Example 3:

**MT1, MT2, MT3, UT#3: User Transponder 3 is deleted.**

## **Delete a UT (If the UT is lost)**

Show MT 4 times (green and red LED flashing). Show the transponder programmed just before that UT you want to delete.

Example 4:

UT 12 has to be deleted. MT 4 times - show UT from pos 11 and UT 12 is now deleted. Pos 12 is free now. To now delete UT 13 – show MT 4 times – show UT from pos 11. etc. NB: All new programmed UT will be stored on the first free places. **MT1, MT2, MT3, MT4, UT#11**

## **Delete UT on pos 1:**

Show MT 5 times (All LED flashing). UT on pos 1 is deleted now.

## **Advanced options in the PR1000 Prox Reader:**

### **Reset the PR1000:**

Make a short circuit between the yellow and the brown cables. Connect the power, all three LED's will light and when cleared a tone will sound. Remove the short. Now the Prox Reader is back in factory default. No MT, CT or TR is active. All is reset. Yellow LED is flashing. The first TR shown will be the MT. The next TR shown will be CT. PR1000 is now ready for programming the user transponder (Transponders up to 1000 pcs)

### **Specifications:**

Supply: +9 – 17 V DC, 30 mA

Output: max 500 mA

Temperature: -30 to + 80 C

Humidity: 100%, IP 67

Color: Black, optional white.

Dimension: h x w x d (mm) 130 x50 x8

Cable: 8 core, 1 m,

Thank you for choosing RTR.

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

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

				Description					
LED	Action + No of passes	LED	Action Passes as required	Programming	New value	Action + No of passes	LED	Action	
Ø Ø Ø	CT1	--ØØ	MT?	Buzzer on/off, repeat	On =Ø, Off =O,	CT7	ø ø ø	MT1	
-- Ø Ø	CT2	-- ---	MT?	Change Locked Indication 1-8, repeat MT to choose	1 – 8, See the LED indication 1- 8	CT6	ø ø ø	MT1	
-- -- --	CT3	-- ---	MT?	ChangeUnlocked Indication 1-8, repeat MT to choose	1 – 8, See the LED indication 1- 8	CT5	ø ø ø	MT1	
-- O ø	CT7	-- Ø ø	MT1	Set output hold time.	Time between CT7 and MT is impuls time. 0=toggle	CT1	ø ø ø	MT1	

### Example 5:

For buzzer selection, pass the CT across the reader once, pass the MT across the reader to select option (the reader will scroll round the options, on/off/repeat for each pass of the MT, the LED will show the option) Pass the CT across the reader (a further 7 times) until all LED's are lit then the MT once to confirm.

### Example 6:

CT3, MT3: LED lighting for normal use is now changed to nr 3 (see LED chart) CT4, CT5, CT6, CT7, CT8 and MT – then the setup is saved in the Reader.

**LED indication:** (default: Yellow for locked, Yellow and green for Unlock)

Indication	Yellow LED	Green LED	Red LED
Ø Ø Ø	On	Off	Off
-- Ø Ø	Not applicable	On	On
-- ø Ø	Not applicable	Flash	Off
ø ø ø	Flash	Flash	Flash