

PKR Proximity Tag Reader Programming and Installation Guide

Model: ProSYS PKR3

Introduction

The PKR Proximity Key Reader allows you to arm and disarm the alarm system using the proximity tag and can also be programmed to perform various operations. For installation at the premises to be protected, the PKR Proximity Key Reader must be connected with 4 wires to the 485 bus of the LightSYS2 and ProSYS Plus control panels. Each of these proximity tags is used with the PKR reader and is assigned with a system user code. When a proximity tag is presented to the reader, one or more system partitions are armed according to the system level that has been assigned to that user code in addition to the PKR reader.

Programming of the readers is performed using the Keypad. Programming of the tags is performed by the first reader programmed in the system, or by a keypad with Proximity, or by the Configuration Software.

The system supports up to a maximum of 16 Proximity Tag Readers and each of these can be individually customized to arm the entire system or only specific partitions. This Programming and Installation Guide describes the PKR Proximity Tag Reader Installer programming, User programming and provides explanations for arming and disarming the system using the tags.

Main Functions

- System Arming/Disarming from one or more remote locations inside or outside the protected areas
- Up to 4 partitions can be armed using a single proximity tag and any combination of partitions can be selected. For example, it is possible to arm partitions 1 and 4, or partition 1, 2 or 3 only
- A number of partitions can be armed depending on the type of proximity reader in operation and the user code assigned to the specific tag
- All system partitions can be armed simultaneously
- If the PKR reader is assinged to a single partition only, both away (full) and stay (partial) arm can be performed using the proximity tag
- The same proximity tags can be used in different systems, such as in home and office systems.

Installation and Programming

Reader Preparation and Wiring

Encode the proximity tag reader to be installed using the integrated microswitches to assign an ID address. A maximum of 16 readers can be connected to the control panel, starting from ID 1. Refer to the table below to prepare the microswitches according to the address to be assigned.





Figure 1: ID Address Microswitches

Micro Switch Expansion Modules	Program the ID number of each device by arranging the microswitches as shown in the table below. The additional addresses from 9 to 16 are exclusively dedicated to keypads and PKR reader modules									
Each expansion module will have an ID number for system identification. To properly arrange the microswitches, see the table to the right		Microswitches			Microswitches					
	ID	1	2	3	4	ID	1	2	3	4
	01	OFF	OFF	OFF	OFF	09	OFF	OFF	OFF	ON
	02	ON	OFF	OFF	OFF	10	ON	OFF	OFF	ON
	03	OFF	ON	OFF	OFF	11	OFF	ON	OFF	ON
	04	ON	ON	OFF	OFF	12	ON	ON	OFF	ON
	05	OFF	OFF	ON	OFF	13	OFF	OFF	ON	ON
	06	ON	OFF	ON	OFF	14	ON	OFF	ON	ON
	07	OFF	ON	ON	OFF	15	OFF	ON	ON	ON
	08	ON	ON	ON	OFF	16	ON	ON	ON	ON

After the proximity reader has been encoded, install a tamperproof switch, if required (*see Figure 1*). Make sure that the switch's metal dowel presses against the internal wall on the back of the box. Connect the tamper to a 24-hour zone in the control panel in order to report Proximity Tag Reader tampering.

Connect the 4 clamps of the reader to the central bus (see Figure 1).

Proximity Key Reader Programming

The Proximity Key Reader must be registered and configured in the system. After the ID address of the Proximity Key Reader has been set up and connected to the bus you can add one or more readers to the system, as follows.

Note: The displayed keypad screens below appear when using the keypad with the LightSYS2 control panel. There may be variations in the displayed screens when using the keypad with the ProSYS Plus control panel.

- 1. From the LCD keypad, enter the installer code (1111, by default) and press \checkmark .
- Navigate to the Programming (Installer) menu and select 7)Install > 1)BUS device > 2)Manual and press V; the following will be displayed.



3. Use the arrow keys to select **06)Prox Key Rd**

Manual Install:
06)Prox Key Rd‡

4. Press \checkmark ; the following will be displayed.



Use the arrow keys on the keypad to position the cursor on the reader's ID number to be added to the system.

Note: The first reader will be programmed with the first ID number "01". Make sure that the reader's microswitch is set to ID=01, as described above.

 With the cursor on the "TYPE" field, press the button, then select PKR; the following will be displayed.



7. Press \checkmark to confirm; the following will be displayed.



8. Press to toggle between N (No) and Y (Yes) or press the keypad's numbers to turn the partitions on or off, and then press V to confirm.

9. Press and select Y (Yes) to Arm Instant the system from this reader and cancel the entry delay time, or, N (No) to keep the entry delay time, since the reader is located inside the room.

Controls:	PKR=1	
1) INSTANT	ARM?N↓	

 Select Y to display the system status for Ready to Arm or N to not display this information, and then press V to confirm; the following will be displayed.

Controls:	PKR=1	
2)SHOW RE	EADY? Y‡	

 Select Y to display the reader system status for System Armed (red LED lights) or N to not display this information, and then press V to confirm; the following will be displayed.



Select Y to display the reader system status for System Part Arm (yellow LED lights) or N to not display this information, and then press V to confirm; the following will be displayed.



Press and select Y to display the reader system status for Bypass zones (blue LED lights), if Bypass zones exist, or, N to not display this information, and then press √ to confirm.



- 14. Once completed, press repeatedly to go back to the previous menus.
- 15. Repeat the above procedure for additional Proximity Key Readers that need to be programmed.

Notes:

- 1. The PART ARM and BYPASS displays are turned on when the reader is assigned to a single partition.
- 2 In the case that a reader loses connection with the control panel, this trouble state will be displayed in the List of Events on the LCD keypad (the first 3 LEDs on the reader will also blink).
- 3. In the case that Forced Tag Arm is activated (System-> Controls menu), arming using the proximity tag excludes all opened zones. These zones will be restored upon next system disarm.

Deleting a Proxmity Key Reader

You can delete a Proximity Key Reader from the system.

 From the LCD keypad, enter the installer code (1111, by default), navigate to the Programming (Installer) menu and select 7)Install > 1)BUS device > 2)Manual and press v; the following will be displayed.

Manual Inst	all:
01)Keypad	\downarrow

2. Use the arrow keys to select **06)Prox Key Rd** and press ✓; the following will be displayed.

Manual Install:
06)Prox Key Rd‡

3. Press \checkmark ; the following will be displayed.



 With the cursor on the "TYPE" field, press the button, then select NONE; the following will be displayed.

	KEY I	READER	
	ID=1	TYPE=NONE	
/			

- 5. Press \checkmark ; the following will be displayed:
 - ***DELETE*** ARE YOU SURE? N
- 6. Press to toggle between N (No) and Y (Yes), and then press V to confirm deletion.

Programming User Codes and Tags

Proximity tags contain a unique code (with millions of possible combinations) that is written on the control panel memory during registration of the Proxy Tag via the User Codes menu.

To register a tag, it is not required to program a user code on the control panel (except for the Proximity Key Reader assigned to the "cleaner" user). Each tag must be assigned to a specific user. It is not possible to assign more than one tag to the same user.

Tags are individually identified according to the corresponding user numbers assigned to them. The user can also assign a code to the tag's user number in order to perform arming and disarming actions from the keypad.

Assigning Partitions to Proximity Tags Users

Once the readers have been programmed, it is necessary to configure the options for all users of the proximity tags. Refer to the LightSYS2/ProSYS Plus Full Installer Manual for instructions on how to assign partitions to users.

User Menu Programming

The maximum number of proximity tags that can be programmed corresponds to the maximum number of registered users in the control panel.

The tag registration device is the first of the installed PKR readers (if more than one exists in the system).

If PKR readers are installed only on the BUS, the learning reader is ID 1. In the case of an LCD keypad with integrated proximity reader, the learning operation is done from the keypad.

Note: The proximity tags used by PKR readers are the same ones used on keypads with integrated proximity reader (except for model RP128KLP).

Registering a Proximity Tag

When the keypad displays the system status, press I. The following will be displayed:



The keypad will sound a confirmation beep and the proximity reader LEDs will turn off to acknowledge. The confirmation will also be displayed on the keypad for a few seconds followed by the next user number for proximity tag registering. Repeat steps 1-5 for each user that needs to be assigned to proximity tags.

When all user codes have been programmed, press (); the following will be displayed:

CAUTION! All tag registering and deleting actions must be performed only by proximity reader number 1 or, if PKR readers are available, by the proximity reader with a lower ID number. If an LCD keypad with integrated proximity reader is available (LCDP) the deleting procedure is automatically assigned to the keypad.

When you have completed the procedure for registering a proximity tag, press repeatedly to exit the User Settings menu.

Deleting a Proximity Tag

There are two ways to delete a proximity tag:

- User delete: when the user is assigned to the proximity tag to be deleted (the tag itself is not required).
- **Tag delete:** the tag is brought near the proximity reader during the deleting procedure and is deleted from the control panel's memory

To delete a Proximity Tag via User Code:

1. Repeat steps 1 -5 in Registering a Proximity Tag; the following will be displayed.

Select User Grand Master

2. Use the arrow keys to select the user code of the proximity tag you want to delete and then press \checkmark ; the following will be displayed.

> USER 00 Edit Code 1

Press the down arrow key repeatedly until the following is displayed. 3.

> USER 00 Delete Tag 1

Press \checkmark ; the following will be displayed. 4.

> ***DELETE** ARE YOU SURE? N

a to toggle between N (No) and Y (Yes), and then press \checkmark to 5. Press confirm deletion; the following will be displayed

> USER 00: TAG DELETED

The proximity tag that is assigned to the selected user number is now deleted.

To delete a Proximity Tag directly using the tag:

Repeat steps 1 -4 in Registering a Proximity Tag; the following will be displayed. 1.



Press the down-arrow key; the following is displayed. 2.

> Codes/Tags Delete By Tag 1

Press \checkmark ; the following will be displayed.

CHOOSE PKR 01)PKR 01

4. Use the up and down arrow keys to select the proximity reader to which the proximity tag is registered, and then press \checkmark ; the following will be displayed.

> APPROACH TAG TO PKR

Note: If an LCD keypad with integrated proximity reader is used, the: following will also be displayed

APPROACH TAG TO KP

Bring the proximity tag close to the PKR reader with ID 1 (or to the PKR reader 5. with the lowest ID); the following will be displayed.

USER 00: TAG	
DELETED	

When you have completed the procedure for deleting a proximity tag, press repeatedly to exit the User Settings menu.

Proximity Tags Operation

Introduction

The LightSYS2 and ProSYS Plus alarm systems with proximity key can be operated in 3 different ways depending on the programming of the proximity readers and tags. The modes of operation are as follows:

- Single partition with Away (Full) or Stay (Partial) Arming from the tag (or by pressing on the keypad).
- Up to 4 partitions that can be armed separately. You can arm all 4 partitions, a single partition or any combination of the 4 partitions.
- Arming all system partitions (if there are more than 4) but without being able to select the partitions to be armed or disarmed.

Note: The configurations described can be programmed separately for each reader of the system.

- Single Partition Away (Full) or Stay (Partial) Arming
- The reader is assigned to a single system partition.
- The reader is assigned to more than one partition but the tags are assigned to a single partition.

To arm the system:

- Position the tag close to the bottom side of the reader and wait until the LED 1. turns on.
- Move the tag away from the reader. 2.
- The system is now armed

To disarm the system

- Position the tag close to the reader and wait for the LED to turn off. 1.
- 2. Move the tag away from the reader.
- The system is now disarmed

Note: If, when positioning the tag close to the reader, the reader's LEDs start blinking fast, this indicates that the tag has not been recognized or is not enabled for the requested operation Position the tag close to the reader again or verify that the tag has been programmed correctly.

If a tag is not registered in the system, a tamper "False Code" alarm will be triggered when attempting to disarm the system by positioning the tag close to the reader three times.

- ------ 11-1.1 .

The following table shows the possible indications and their meaning.			
Reader with a single Partition Red / Yellow / Green / Blue LED	State	Description	
	Steady LED on	Partition ready	
	Slow blinking LED	Partition not ready	
	Steady LED on	Partition Away (Full) Arm	
	Steady LED on	Partition Stay (Partial) Arm	
	Slow blinking LED after moving away the tag from the reader	Exit Delay in Away (Full) Arm	
	Slow blinking LED after moving away the tag from the reader	Exit Delay in Stay (Partial) Arm	
	Fast blinking LED	Partition alarm	
LED on	• LED blinking	O LED Off	

Up to a maximum of 4 Partitions - You can arm all 4 partitions, a single partition or any combination of the 4 partitions

This mode of operation applies to the following cases:

- The Reader is assigned to 4 partitions.
- The Reader is assigned to 4 partitions but the activation key in use is assigned to 2, 3 or 4 partitions.

To arm the system, position the tag close to the reader and wait for the LED/LEDs to turn on and then move the tag away from the reader. The selected partitions have been armed. Note: The partition LEDs turn on sequentially indicating all possible combinations. Move the tag away when the desired combination is displayed, for example, partition 1+3 red LED and green LED on.

To disarm the system, position the tag close to the reader and wait for the LED (or LEDs) to turn off before moving away the tag. Partitions are disarmed

Note: If, when positioning the tag close to the reader, the reader's LEDs start blinking fast, this indicates that the tag has not been recognized or is not enabled for the requested operation. Position the tag close to the reader again or verify that the tag has been programmed correctly. If a tag is not registered in the system, a tampering "False Code" alarm will be triggered when you put it close to the reader for three times and try to disarm the system

The following table shows the possible indications and its description.

Reader with 4 Partitions (Each partition has a dedicated LED)	State	Description
0	LED Off	Partition ready
۲	Slow blinking LED	Partition not ready
	Steady LED on	Partition armed
۲	Steady LED on	Exit delay
۲	Fast blinking LED	Partition alarm
		\bigcirc

LED on LED blinking U LED Off

Note: The column of the Reader with 4 partitions has a single LED because the signal is individual for each partition. Each partition corresponds to an LED. The partition with the lowest number is indicated by the first LED from the top (mainly used with the ProSYS Plus system which has 32 partitions).

All Partitions Arming

This mode of operation applies to the following cases:

- Both the Digital Reader and the tag are assigned to all partitions programmed in the system.
- To arm the system, position the tag close to the reader (about 2 to 3 cm) and wait until the Red LED turns on. Then move the tag away from the reader. All system partitions are now Armed.

Notes:

- 1. If the Red LED is blinking slowly after having armed the partitions, this indicates that one of the partitions assigned to the reader is not armed (possible not ready for arming- indicated by green LED blinking before arming). To disarm the system, position the tag close to the reader and wait for the LED to turn off before moving away the tag. All partitions disarmed.
- 2. If the tag is enabled to be assigned to up to 4 partitions, the reader's LEDs will indicate to select the partitions during arming
- 3. If the tag is enabled to arm a single partition only, the reader's LEDs will indicate to select the Away or Partial Arming for the partitions during arming
- 4. If you position the tag close to the reader and the reader's LEDs blink fast simultaneously, this indicates that the tag has not been registered or is not enabled for the requested operation. Position the tag close to the reader again or verify that the tag has been programmed correctly.

If a tag is not registered in the system, a tamper "False Code" alarm will be triggered when attempting to disarm the system by positioning the tag close to the reader three times. The following table provides the LED indications and their description when the mode of operation is set to higher than four Partitions

Reader with more than 4 Partitions Red / Yellow / Green / Blue LED	State	Description
	Steady LED on	Partitions ready
	Slow blinking LED	One or more partitions is not ready
	Slow blinking LED	Some partitions are armed
	Steady LED on	All partitions armed
	Slow blinking LED after moving the tag away from the reader	Exit delay
	Fast blinking LED	Partition alarm
LED on	• LED blinking	O LED Off

Technical Information

SPECIFICATIONS	
Power supply:	13.8 Vcc ± 10 %
Current consumption	70 mA (180 mA, max)
Max distance for Key Reader reading	3 cm
Min distance between two readers	15 cm
Identification Code	32 bit (4294 M. of comb.)
Operating frequency	13.56 MHz
Dimensions (L x H x D):	40 x 43.6 x 22 mm (1.57 x 1.72 x 0.86")
Operating Temperature:	5°C to 50°C (41°F to 122°F)
Operating Temperature:	-10°C to 60°C (14°F to 140°F)
Humidity:	80%

Ordering Information

P/N	Description
RP128PKR300A	Proximity reader for LightSYS2/ProSYS BUS, without receptacle outlet and with 2 tags
	Frequency: 13.56 MHz
RP200KT0000A	Proximity reader for PKR Readers and LCD keyboards with integrated proximity reader (10 pieces per pack) Frequency: 13.56 MHz

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