REM3: Hand-held Two-way Remote Keypad
Reference and Installation Manual V1.10

P ▲ R ▲ D O X™

Overview

The REM3 combines the flexibility of a keypad with the convenience and mobility of a remote control. Its 15 buttons allow for a greater level of interaction with the system than regular remote controls, and the two-way transceiver allows for accurate feedback for up to two partitions.

Compatibility and Technical Specifications

The following table provides the compatibility and technical specifications for the REM3 Hand-held Two-way Remote Keypad.

Specifications	
RF frequency	433MHz or 868MHz
Battery type	One 3V lithium battery (2032)
Consumption	Standby: 0.9uA, 19mA during transmission
Battery life	Battery life expectancy is a minimum of 1 year. "Low Battery Signal" is sent to the control panel when battery is below 2.2Vdc. Upon power-up, a "Low Battery Restore Signal" is sent to the control panel when the battery voltage level has reached 2.6Vdc or higher. The low battery restore feature is only compatible with the following: MG series: 4.90 and up SP series: 4.90 and up SP65, SP4000: 5.10 and up RTX3: V5.20 and up
Range (typical in a residential environment)	45m (150ft)
Compatibility	MG5000 / MG5050 V3.0 and higher / Spectra SP Series V3.0 and higher in conjunction with a RTX3 V1.31 and higher. EVO V2.10 and higher in conjunction with a RTX3 V1.50 and higher. **IMPORTANT:** The REM3 is not compatible with the RPT1 and will not benefit from the additional range.
Dimensions	8cm x 3.4cm x 1.5cm (3.1in x 1.3in x 0.6in)
Temperature Rage	0-50℃ (32-120° F)
Humidity	5-90%
Weight	32 g (1.2 oz)
Standards	EN 50131-3 Grade 2 Class II (portable type B; certification body = Intertek)

MGSP Remote Control Programming

Use the following sections to program the various remote controls in your MGSP system.

Assigning the REM3 to the Panel

Table 1: Steps for assigning the REM3 to an MGSP panel

Step	Fig. 1:Action on Keypad	Details
1	[⏻] + [MASTER CODE]	The [⏻] key will flash. LED/key on = programmed user. [PARTITION MASTER CODE] may also be used.
2	[user number]	2 digits: 01 to 32
3	[code]	Enter 4- or 6-digit code
4	[confirm code]	Re-enter 4- or 6-digit code
5	[learn remote]	Press and hold the Information key ([i]) on the designated remote. *Important: For partitioned systems, go to step 6. For non-partitioned systems, go to step 2 to add another remote or press [CLEAR] to exit.*
6	[1] and/or [2] + [ENTER]	Assign the user to one or both partitions, then press [ENTER]. Go to step 2 or press [CLEAR] to exit.

One-touch Arm Keys

The REM3 offers the use of one-touch arm keys. The use of one-touch arm keys must be enabled in section [703], options [1] to [3] in the panel.

Table 2: One-Touch arm key options

Option	Description	[703] OFF	[703] ON
1	One-touch regular arming	☐	▲
2	One-touch stay arming	☐	▲
3	One-touch sleep arming	☐	▲

PGM Key Assignment

The REM3 provides six PGM keys. See sections **[610]** to **[642]** in the panel to define the six PGM keys and two combo keys:

Worksheet 1: Programming remote controls

		REM3 Remote Control							
		PGM 1 [9]	PGM 2 [0]	PGM 3 [x]	PGM 4 [✓]	PGM 5 [●]	PGM 6 [●]	PGM [x] + [✓]	PGM [●] + [●]
Section	Default Data	B	C	D	E	5	6	SLEEP	SLEEP
[610]	ALL RCs	——	——	——	——	——	——	——	——
Important: When section [610] is accessed, the panel will copy the saved value of that section to all remotes.									
[611]	RC#1	——	——	——	——	——	——	——	——
		——	——	——	——	——	——	——	——
[642]	RC# 32	——	——	——	——	——	——	——	——

PGM Key Definitions Table

[SLEEP] - Empty / Button disabled
[1] - Regular / Regular Force arming
[2] - Stay / Stay Force arming
[3] - N/A
[4] - Sleep / Sleep Force arming
[5] - PGM Activation (Event Group #22)
[6] - PGM Activation (Event Group #23)
[7] - N/A
[8] - Panic 1
[9] - Panic 2
[A] - Panic 3
[B] - PGM Activation (Event Group #8)
[C] - PGM Activation (Event Group #9)
[D] - PGM Activation (Event Group #10)
[E] - PGM Activation (Event Group #11)
[F] - Paramedic alarm

One-Touch Programming

Program the REM3 to enable one-touch mode to disarm your system and/or trigger PGMs. By default, the REM3 is set to require code entry. Section **[360]** is used to configure all odd and even-numbered REM3s, while sections **[361]** to **[376]** are used to configure REM3s by pairs.

Table 3: Programming One-touch

[360]	Odd-numbered REM3s		
	[1] PGM activate/deactivate **[2]** Disarm	OFF = Code entry OFF = Code entry	ON = One-touch ON = One-touch
	[3] & **[4]**	N/A	N/A
	Even-numbered REM3s		
	[5] PGM activate/deactivate **[6]** Disarm	OFF = Code entry OFF = Code entry	ON = One-touch ON = One-touch
[361]	REM3 #1		
	[1] PGM activate/deactivate **[2]** Disarm	OFF = Code entry OFF = Code entry	ON = One-touch ON = One-touch
	[3] & **[4]**	N/A	N/A
	REM3 #2		
	[5] PGM activate/deactivate **[6]** Disarm	OFF = Code entry OFF = Code entry	ON = One-touch ON = One-touch
[376]	REM3 #31		
	[1] PGM activate/deactivate **[2]** Disarm	OFF = Code entry OFF = Code entry	ON = One-touch ON = One-touch
	[3] & **[4]**	N/A	N/A
	REM3 #32		
	[5] PGM activate/deactivate **[6]** Disarm	OFF = Code entry OFF = Code entry	ON = One-touch ON = One-touch

EVO Remote Control Programming

Use the following section to program the various remote controls in your EVO system.

It is possible to configure up to 16 different button templates, which are then assigned to individual users. Each user is pre-programmed with a default button pattern for their remote control: (1 B) (C 0) (template 0).

Note: Button definitions and partition/one-touch definitions are linked together to create a button template. For example, Template 0 is comprised of button definition **[2900]** together with partition/one-touch definition **[2916]**.

Remote Control Templates

To use REM3 templates:
1. Define the 16-button definitions in sections **[2900]** to **[2915]**.
2. Define the 16-partition/one-touch definitions in sections **[2916]** to **[2931]**.
3. Define which button template is used as the default for remotes in section **[2940]**.
4. Assign button templates to users in section **[2941]**.
Use the information in tables 4 and 5, as well as figure 1, to enter data in worksheet 2 and worksheet 3.
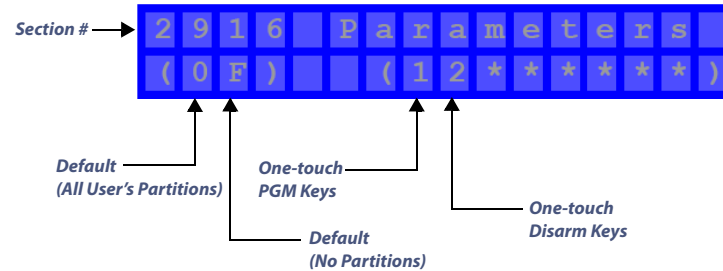
Table 4: Template data for remote control programming

Entry		Function
K641/K641R/ K641LX	K656	
0	0	Button disabled
1	1	Regular arm
2	2	Stay arm
3	3	Instant arm
4	4	Force arm
5	5	Utility key 5
6	6	Utility key 6
7	7	-
8	8	Panic 1
9	9	Panic 2
A = **STAY**	A = **ARM**	Panic 3
B = **FORCE**	B = **SLEEP**	Utility key 1
C = **ARM**	C = **STAY**	Utility key 2
D = **DISARM**	D = **OFF**	Utility key 3
E = **BYP**	E = **MENU**	Utility key 4
F = **MEM**	F = ☐	-

Table 5: Default template and user remote assignment

Section	Name	Description
[2940]	Default button template	To select a button template as the default template, enter **00** to **15**, representing button templates in sections **[2900]** to **[2915]**.
[2941]	Assign button template	To assign a button template to a user, select the user when prompted, then enter **00** to **15**, representing button templates in sections **[2900]** to **[2915]**. If user *000* is selected, all users are modified.

Figure 1: Entering data for section [2916] on a LCD keypad use for worksheet 2 and worksheet 3

Section # →

```
2916  Parameters
(0F)    (12******)
```

Default (All User's Partitions)
Default (No Partitions)
One-touch PGM Keys
One-touch Disarm Keys

Worksheet 2: Programming remote controls

		REM3 Remote Control							
		PGM 1 [9]	PGM 2 [0]	PGM 3 [x]	PGM 4 [√]	PGM 5 [●]	PGM 6 [●]	PGM 3 & 4 [x] + [√]	PGM 5 & 6 [●] + [●]
	Default Data	1*	B*	C*	0*	5	6	0	0
Template	Section								
0	[2900]	_____	_____	_____	_____	_____	_____	_____	_____
1	[2901]	_____	_____	_____	_____	_____	_____	_____	_____
2	[2902]	_____	_____	_____	_____	_____	_____	_____	_____
3	[2903]	_____	_____	_____	_____	_____	_____	_____	_____
4	[2904]	_____	_____	_____	_____	_____	_____	_____	_____
5	[2905]	_____	_____	_____	_____	_____	_____	_____	_____
6	[2906]	_____	_____	_____	_____	_____	_____	_____	_____
7	[2907]	_____	_____	_____	_____	_____	_____	_____	_____
8	[2908]	_____	_____	_____	_____	_____	_____	_____	_____
9	[2909]	_____	_____	_____	_____	_____	_____	_____	_____
10	[2910]	_____	_____	_____	_____	_____	_____	_____	_____
11	[2911]	_____	_____	_____	_____	_____	_____	_____	_____
12	[2912]	_____	_____	_____	_____	_____	_____	_____	_____
13	[2913]	_____	_____	_____	_____	_____	_____	_____	_____
14	[2914]	_____	_____	_____	_____	_____	_____	_____	_____
15	[2915]	_____	_____	_____	_____	_____	_____	_____	_____

Worksheet 3: Programming remote controls continued

		Partitions **		One-touch Keys	
		🏠1	🏠2	One-touch PGM Keys	One-touch Disarm Keys
Template	Section	Default = 0 (All user's partitions)	Default = F (No partitions)	▲ = Disabled (default) ☐ = Enabled	
0	[2916]	_____	_____	☐	☐
1	[2917]	_____	_____	☐	☐
2	[2918]	_____	_____	☐	☐
3	[2919]	_____	_____	☐	☐
4	[2920]	_____	_____	☐	☐
5	[2921]	_____	_____	☐	☐
6	[2922]	_____	_____	☐	☐
7	[2923]	_____	_____	☐	☐
8	[2924]	_____	_____	☐	☐
9	[2925]	_____	_____	☐	☐
10	[2926]	_____	_____	☐	☐
11	[2927]	_____	_____	☐	☐
12	[2928]	_____	_____	☐	☐
13	[2929]	_____	_____	☐	☐
14	[2930]	_____	_____	☐	☐
15	[2931]	_____	_____	☐	☐

** If *0* is entered, the associated buttons will control all partitions to which the user is assigned. If *F* is entered, the associated buttons will be disabled.

REM3 Diagnostic Mode

To access the signal strength and RF activity displays (LED indicators): press and hold the Information key to unlock, then press and hold the following three keys simultaneously: Information key (**[i]**), PGM key 1, and PGM key 2.

IMPORTANT: Repeated use of diagnostic mode will drain the battery.

Information Key
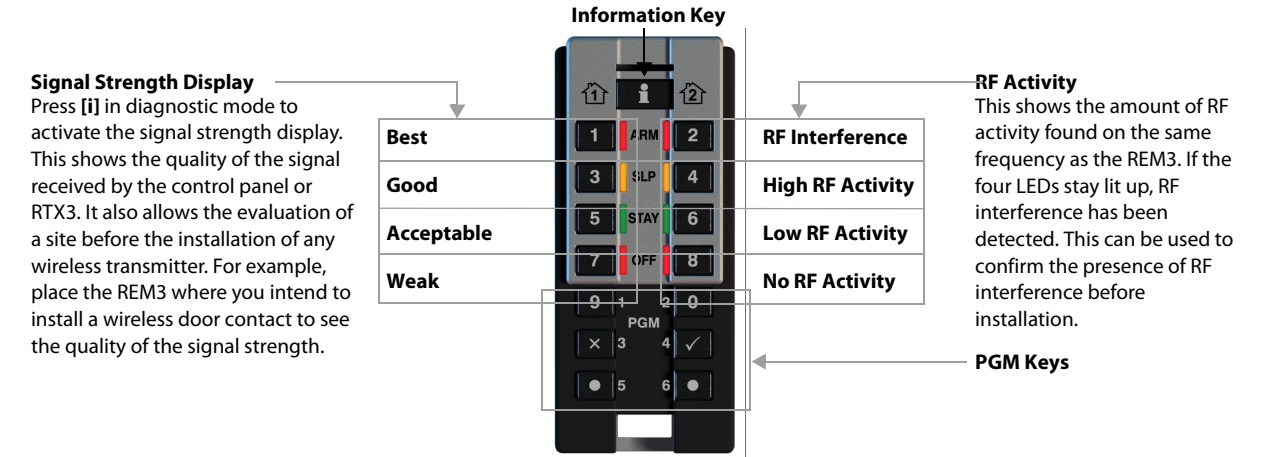
Signal Strength Display
Press **[i]** in diagnostic mode to activate the signal strength display. This shows the quality of the signal received by the control panel or RTX3. It also allows the evaluation of a site before the installation of any wireless transmitter. For example, place the REM3 where you intend to install a wireless door contact to see the quality of the signal strength.

Signal Strength	RF Activity
Best	RF Interference
Good	High RF Activity
Acceptable	Low RF Activity
Weak	No RF Activity

RF Activity
This shows the amount of RF activity found on the same frequency as the REM3. If the four LEDs stay lit up, RF interference has been detected. This can be used to confirm the presence of RF interference before installation.

PGM Keys