



CB-RPT

TWO WAY WIRELESS SELECTIVE REPEATER MODULE

INSTALLATION INSTRUCTIONS

4

INTRODUCTION

The CB-RPT extends your RF ISM home alarm system data reception and the RSSI range of your connected devices. It receives alarm, status and control messages from the wireless devices and sends these messages to the control panel.

- Extends radio communication range of security alarm system by repeating all message types.
- Repeats messages to/from devices that defined by installer.
- AC Adapter powered with a battery back-up.
- Repeats data transfer – pictures from device to control panel.
- Secure ID 24 Bits encryption
- Support FOTA (from C.P. SW Ver. 92.04)
- Repeats FOTA data for device update.
- Records devices communication quality (RSSI value)
- Reports devices communication quality upon control panel request.
- Reports Tamper status, AC fail/restore and Battery status and value.
- Automatic network control.
- LED indications for communication activity and power status.
- Compact and Easy to install.
- Frequency Band: 868MHz / 916MHz

NOTE: The product is supplied with a battery connected

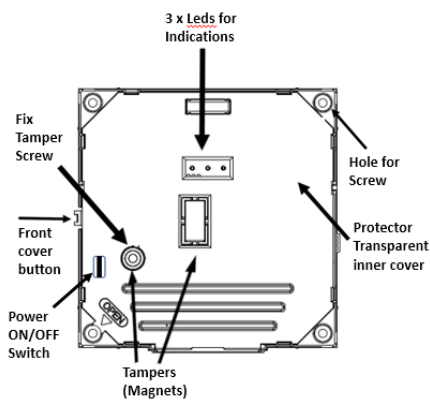
5

CB-REPEATER -SELECTIVE



6

PRODUCT DESCRIPTION



7

LEDS INDICATION DESCRIPTION



POWER UP. The three LEDs flash red-green for 7 seconds
COM.DEV. – Indicates the communication between GW and the ISM Devices, blinks green Led every repeated message from a device for 1 sec.

POWER – Indicates the power is ON or OFF.

1. Blinking green indicates – AC power is connected and battery is fully charged.

2. Blinking red & green – AC power is connected and the battery is charging.

3. Blinking red – AC failed

COM.GW – indicates the communication between CB-Repeater and control panel (gateway), blinking green led indicates device is communicating with control panel.

NOTE1: AC power failure will reported and presented in overview level within 10 seconds after power AC failure occurs

NOTE 2: The time of receiving images from a camera through the repeater is twice the time of a regular image time.

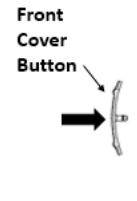
8

OVERVIEW

Power ON/OFF Switch – used to shut down the repeater when AC fails or disconnected.

Disconnect the AC power, make sure the power LED is flashing red, wait 10 seconds, then press and hold the Switch button for a few seconds and finally all 3 LEDs light on red for 1 second and turn off. (This option is to avoid battery disconnection) to turn the repeater power ON just connect the AC power back.

Front cover button – press the button and hold to remove the front cover off the base. (see section 4)



9

LEARNING PROCESS

Please refer to your control panel installation.

1. Enter in installing mode via the "installer Webpage"
2. Go to Communication->RF and select the repeater 1-4 # you want to learn.
3. Insert serial number (Device's ID).
4. Save Configuration.
5. Connect the supplied battery to the connector in the repeater.
6. Connect the AC power USB to repeater's USB connector.
Verify: All 3 led are blinking red and green simultaneously for 7 sec- power up successfully
7. Registration proceed is starting, please verify:
 1. **COM. GW** green LED will turn ON 5 sec and then will blink green led every 1 sec – **learn successfully.**
 2. **COM. GW** Red LED is blinking after 5 min.- **learn failed**
8. If learning failed, check repeater details and please repeat steps (3-7)

10

TEST THE REPEATER RSSI

It is recommended to proceed and check Transmission from CB-RPT
 After learning the CB-RPT into your control panel.

We suggest you to go to Overview level -> Repeaters section of your control panel and check the RSSI level.

See picture below

NOTE: CB-RPT sends supervision message every 1 minute

#ID	Name	Serial	State	RSSI
1	SELECTIVE	2640293	Ready	📶

Important Note: every device can be assign to one repeater only

11

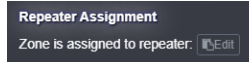
ASSIGNING DEVICES INTO REPEATER

Zones, Outputs, Keypads, Extenders, Doorlock, RMT supported by the CB-RPT. Each can be assign in the specific control panel program.

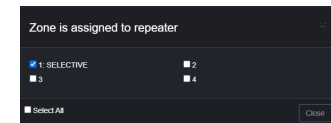
for Example : zones

Assigning required zones into repeater

1. Enter into control panel programming mode
2. Go to Zones level
3. select zone number to be assigned to the repeater
4. From zone parameters screen find the Repeater Assignment feature and click the Edit button



5. Select the repeater number 1-4 and close the window



5. save configuration

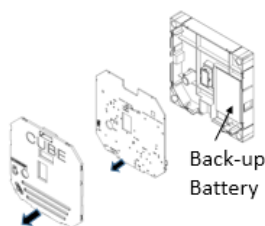
Repeat the same steps for outputs, keypads, extenders, RMT, Doorlocks.

12

BATTERY REPLACEMENT

The battery is located below the PCB board

- Remove the front cover
- Remove the protector transparent inner cover (see section 4) using the open located at the left corner
- Remove the PCB board
- Disconnect the battery connector
- Replace battery



CAUTION !!!

RISK OF EXPLOSION IF BATTERY IS REPLACED BY DIFFERENT TYPE / MODEL. PLEASE REFER TO YOUR INSTALLER

TECHNICAL SPECIFICATIONS

- Data Protocol: Freewave2™ Two Way ISM
- Modulation Type: GFSK with 5 frequencies & LBT
- Frequency band: 868MHz / 916MHz /916MHz
- Identification: Unique ID serial number – 24 bit
- Events Supported from connected devices: Alarm, Tamper, Supervision, Low Bat
- Event Transmission: Low Bat , AC Fail, Supervision
- Supervision Time: Every 1 min
- Range (open space): 500m
- Operation Voltage: 5V DC
- Battery Backup: 3.7V/3Ah Li-Ion Rechargeable ~ 48 hours back up
- Time to Charge: less than 24 hour
- Low battery: 3.7V
- Cut off: 3.3V
- Current Consumption: Average <20 mA
TX Power < 14 dBm
- Operating temperature: -10°C to +55°C
- Dimensions: 130mm x 130mm x 20mm
- Weight (incl. battery): 200 gr.

11

REGULATORY APPROVALS

CB-RPT conforms to the essential requirements set out by:

- RED directive:2014/53/EU
- EMC directive: 2014/30/EU
- Low Voltage directive (LVD): 014/35/EU

Standards applicable to CB-RPT:

- EN300 220-2
- EN50131-5-3
- EN301489-3
- EN301489-1
- EN301489-6
- EN301489-17
- EN301489-52
- EN50130-4
- EN50130-5
- EN 62368-1
- EN50131-6
- EN 50131-3
- EN50131-1

Security Grade 2 Environmental Class II
 Certification body: Telefication B.V.

14