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Security Grade 2 Environmental Class II

Software Version >9.13





Wireless Setup Guide RINS1550-4

PIEZO WARNING

The Enforcer 32-WE system contains a 100dBA siren, please be aware of this after an activation





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Default Codes:

User Code: 1234 Master Manager Code: 2222

Other Codes:

Keypad Security Code: '2000' Delete All Wireless Data: '2000'

1. The Enforcer 32-WE

This manual is intended for 'quick starting' the Enforcer 32-WE in terms of learning inputs, bells and keyfobs. For all other information please see RINS1549.

1.1 The Enforcer 32-WE



A = Exits the Master Manager menu (page: 16), and selects Area A when setting.

 \blacksquare = Moves backwards in the Master Manager menu (page: 16), and selects Area B when setting.

 $\boxed{\mathbf{C}}$ = Enables chime, displays additional information in the event log, and selects Area C when setting.

D = Moves forward in the log, scrolls between options and enters the Master Manager menu (page: 16), and selects Area D when setting.

🖄 🐻 = Not used.

■ Directional buttons and enables/disables functions.

YES = Selects commands

NO = Cancels items, resets the panel and moves to next item in a menu item.

1.2 The Wireless KF4-WE

The KF4-WE may be used to set and unset the Enforcer 32-WE, as well as other operations. Refer to page 8 for learning the KF4-WE to the Enforcer 32-WE.

The keyfob has 4 buttons, and 8 programmable actions available. These can be programmed as:

- [1] Show Status
- [2] Set Area
- [3] Unset Area
- [4] Latch Output
- [5] Timed Output



2. Wireless Devices

There are a range of wireless devices that can be learnt on to the Enforcer 32-WE system. These are described below.

Product Name	Description	Maximum Devices
DETECTORS (INP	PUTS)	
KX12DT-WE	12m Dual Technology Detector	
KX10DTP-WE	10m Dual Technology Pet Immune Detector	
KX12DQ-WE	12m Dual Detector	
KX10DP-WE	10m Pet Immune Detector	
KX15DC-WE	15m Curtain Detector	
KX25LR-WE	25m Long Range Detector	
CONTACTS (INPL	JTS)	22
MC1/SHOCK-WE	Combined Magnetic Contact and Shock Sensor	52
MC2-WE	Magnetic Contact and Universal Transmitter	
MC1MINI-WE	Magnetic Contact	
SENSORS (INPU)	TS)	
SMOKE-WE	Smoke Sensor	
CO-WE	Carbon Monoxide Detector	
WL-WE	Water Leak Sensor	

Product Name	Description	Maximum Devices
EXTERNAL SOUN	DERS (BELLS)	
DELTABELL-WE	External Sounder	2

Product Name	Description	Maximum Devices
ARMING DEVICES	S	
KF4-WE	4 Button keyfob	32

All Wireless detectors, contacts, sensors, and external sounders have a 'LEARN' button. Once the Enforcer 32-WE is ready to learn (page: 6), the LEARN button must be pressed.

There are also 3 LEDs^{*} on each wireless peripheral that helps to show:

1) Signal Strength

2) Alarm State

NOTE 1: When learning the KF4-WE, a button needs to be pressed (page: 8)

NOTE 2: The CO-WE and SMOKE-WE only has one (tri-colour) LED present.



The example above shows a KX12DQ-WE detector.

3. Powering Up / Entering & Exiting The Engineers Menu

3.1 Initial Power Up

- The initial power up may take a few minutes before 'ENFORCER 32-WE' and the time is displayed on the display.
- 2. Once 'ENFORCER 32-WE' and the time are displayed, programming can begin.



NOTE: It is important that no keys are pressed during the initial power up period.

3.2 The Engineer Menu



***NOTE**: You can only exit the Engineer menu by pressing **A** if a main menu item is displayed (a main menu item is recognised if the text is all capitals).

4. Learning Devices

4.1 Learning Inputs

This section shows how to learn any inputs on to the Enforcer 32-WE. Refer to page: 4 for a list of all wireless input peripherals available.

It is recommended that all wireless inputs are learned at the Enforcer 32-WE before final installation. This makes the learning procedure much quicker.

A maximum of 32 x wireless inputs may be learned.

Once 'Learning' has been completed, the position of the input in a property must be tested for signal strength before it is actually 'fixed' into place. See page 10 when analysing the signal strength.

Before learning each input, check that the battery is present and inserted correctly. To enable the battery please remove the plastic strip. The LEDs will start flashing.

Follow the instructions on the right to start learning the inputs.

An input that is learnt correctly will flash the GREEN LED briefly and 'Input Learnt' will be displayed on the Enforcer 32-WE display. Both of these instances need to occur to indicate a successful learn.

Once learning has completed, each input needs to be given an input type (Final Exit, Intruder, etc.) see the main programming manual RINS1549 for more information. The function is called <u>'CHANGE INPUTS'</u>.

If the Engineer's menu is exited before an input type is assigned to a learnt input, an error mismatch fault will be displayed.

Input and Sensors



Detectors



Learning Procedure.



4.2 Learning Bells

This sections shows how to learn any external sounders (bells) on to the Enforcer 32-WE.

It is recommended that all wireless bells are learned at the Enforcer 32-WE before final installation. This makes the learning procedure much quicker.

A maximum of 2 wireless bells (DELTABELL-WE) may be learned.

Even though the 'learn' may be successful, the position of the bell on a property must be tested for signal strength before it is actually 'fixed' into place. Refer to page 10 when analysing the signal strength.

Before learning each bell check that the battery is present and is inserted correctly.

Follow the instructions to the right to start learning the bells.

A bell that is learnt correctly will flash the GREEN LED briefly and display 'Bell Learnt' on the keypad. Both of these instances need to occur to indicate a successful learn.



DELTABELL-WE

Learning Procedure.



4.3 Learning Keyfobs

This sections shows how to learn any keyfobs (KF4-WE) on to Enforcer 32-WE.

Learning keyfobs can only be done from the master manager menu. Follow the instructions to the right to enter the Master Manager Menu (for more information please see RINS1548).

A maximum of 32 keyfobs can be assigned to the Enforcer 32-WE. Each keyfob has 4 buttons that can have specific operations:

[0] No action: Disables the button.

[1] Show Status: If the keyfob is learnt, the LED will flicker when the nominated button is pressed. GREEN = Unset. RED = Set.

[2] Set Area: Sets the chosen area.

[3] Unset Any Area: Unsets any area on the system.

[4] Latch Output: Latches an output (programmable) when the nominated button is pressed.

[5] Timed Output: Activates an output for a period of time (programmable in seconds).

When learning a keyfob, any button must be held until the LED flashes GREEN and RED, and then when released, a GREEN LED will be shown, asterisks will appear in the brackets on the keypad and an acknowledgement beep will be heard, all indicating a successful learn.

Keyfob buttons can also be programmed in the engineer menu, in the same way as shown here (please see the programming manual for more information).

Deleting Keyfobs

To delete a keyfob, press YES when the display shows 'Delete User' in the <u>'CHANGE CODES'</u> menu.





5. Deleting Inputs and Bells

Deleting Inputs and Bells from the Enforcer 32-WE can either be done collectively or individually.



6. Diagnostics

The diagnostics function shows all wireless input and bell signal strengths and battery status.

6.1 Signal Strength

One of the most important factors for a reliable wireless installation is the signal strength between a wireless device and the panel. If a device is out of range it will not be able to send events to the Enforcer 32-WE panel therefore it is recommended that a signal strength test is performed before fixing devices into place.

The Enforcer 32-WE has an advanced signal strength mechanism that operates by monitoring all inputs/bells after 5 minutes from the start of the test. It will perform this test every 16 seconds.

NOTE: When performing a signal strength test it is recommended that the system is tested in the 'worst case scenario' for example with all doors and windows closed. Once the function is entered, a count down from 300 will

begin, when 0 is reached the input results display will be shown, or press \underline{YES} during the countdown to go to the input display immediately.

One of the following will be displayed:

<u>Result</u>	Action
-	No device installed
?	Waiting for device signal strength information
0	Missing (reposition and retest)
1	Weak signal (reposition and retest)
2	Good install position
3	Excellent signal

The signal strength can also be read from the wireless device LEDs:

GREEN LED = Good. **RED LED** = Bad

When the display is showing the input status, pressing $\underbrace{\text{YES}}$ will show each individual input and a detailed signal strength reading will be shown as follows:

Action

<u>Result</u> Excellent [50 to 100] Good [30 to 49] Weak [0-29] Missing [-]

OK to install OK to install Not OK to install Not OK to install



6.2 Battery Status

The diagnostics function also monitors the battery of each of input and bell so that any batteries that need replacing can be easily identified. The Enforcer 32-WE has an advanced battery test mechanism that operates by monitoring all inputs/bells after 5 minutes from the start of the test. It will perform this test every 16 seconds. Once the function is entered, a count down from 300 will begin. Press YES to go to the main display, one of the following will be displayed:

Testing = Waiting for a battery result **Good** = At least one month of battery life remaining

Replace = Battery needs to be replaced immediately

Battery Status Procedure.



7. Wireless Functions

7.1 Site Options

In <u>'SITE OPTIONS'</u> function there are 3 functions for the Enforcer 32-WE:

Set With Polling Fault: This allows the Enforcer 32-WE to set even if a device has missed 20 minutes worth of device polls. *[0] No [1] Yes*

Fob Unset Entry: If this function is enabled a keyfob can only be used to unset the control panel when the entry time is counting down. [0] No [1] Yes

Wireless Bell Supervision: If this function is enabled, the bell performs its own supervision and jamming protection, and will alarm if either condition occurs (this cannot be silenced by the panel). The alarm will stop after the bell expiry time, when the jamming stops or when a supervision message has been received by the panel. If this function is disabled, it will work the same way as an input. No supervision or jamming will be detected by the bell, but the Enforcer 32-WE will still detect both depending on the timers. [0] No [1] Yes

In the Engineer Menu Use **B** and NO to scroll to: SITE OPTIONS? Press YES Set with Poll FL No. [0] Use 🗲 or 🕨. Press [YES] <u>Fob Unset Entry</u> No. [0] Use 🗲 or 💽. Press 🕅 Wirls Bell Sprv No. [0] Press [YES]

7.2 Change Timers

In <u>'CHANGE TIMERS'</u> there are 2 functions for the wireless operation:

Wireless Supervision Time: This is the time window before a supervision fault will be signalled. For example: if the time is set for 2 hours, then any device that doesn't communicate with the Enforcer 32-WE within that period will cause a supervision fault.

[0-99] hours (0=supervision faults ignored) **NOTE:** Must be set to 2 hours or less to comply with EN50131.

Wireless Jamming Time: This is the time window that monitors the signals of each wireless device. If a signal is 'blocked' for longer that the programmed time a fault will be displayed. [0-100] seconds (0=jamming faults ignored). NOTE: It is not recommended to program less than 10 seconds. Must be set to 30 seconds or less (but not to zero) to comply with EN50131. In the Engineer Menu Use **B** and NO to scroll to:



8. Fault Displays

8.1 Wireless Mismatch

If an input is assigned as a type (Final exit, Intruder, etc) but no wireless detector has not been learnt on that input number or vice versa, this fault will be displayed.

8.2 Wireless Tamper

If a wireless input is in tamper, the alarm will activate and the input in fault will be displayed.

8.3 Battery Low

The Enforcer 32-WE monitors the batteries of each wireless device and is defined by the following displays:

Battery Low UXX (U = Keyfobs. XX = User Number) Battery Low IXX (I = Inputs. XX = Input Number)

Battery Low BXX (B = Bell. XX = Bell Number)

If battery low is displayed it is advisable to replace the battery within 28 days of this message being shown.

8.4 Wireless Supervision

The Enforcer 32-WE monitors the operation of each wireless device and is defined by the following:

Radio Supervision IXX (I = Input, XX = Input Number)

Radio Supervision BXX (B = Bell, XX = Bell Number)

If this occurs it would be advisable to check the signal strength of the device in the diagnostics function.

8.5 Jamming

This is reported when a jamming signal is recognised on the wireless frequency.

Check that no wireless interference is in close proximity to the radio devices/panel.

8.6 Wireless Poll Fault

This is displayed when no 'polls' are received for 20 minutes before the set operation. Test the signal strength / battery on each wireless device.

Input 01 Wirls Poll F700

Wireles Jam WZm

Office.





Alarm	Silenced
Input	01

Wirls mismatch Input 01

9. Wireless Peripherals

This section describes most of the wireless peripherals that can be learnt to the Enforcer 32-WE.

9.1 MC1MINI-WE

The MC1MINI-WE is a Two Way wireless magnetic contact with 1 reed switch.

9.1.1 Learning / Diagnostics / Installation



9.1.2 Installation Notes

It is recommended the MC1MINI-WE is learned at the control panel. A signal strength test should then be performed to make sure the most suitable location is chosen, ensuring optimum wireless range.

9.1.3 Installation Surfaces

NOTE: The MC1MINI-WE can be mounted on typical building materials; such as wood, PVC, brick or metal etc. If you do encounter any problems with different surfaces, please contact customer.support@pyronix.com

9.1.4 Technical Specification

Battery: *Type:* 3.0V CR123A. *Threshold:* 2.5V +/- 5% at 25°C. *Life:* Up to 2 years <u>Wireless:</u> *Transmission Frequency:* 868MHz, FM transceiver narrow band *Transmission Method:* Fully encrypted rolling code

Materials and Environment: Colour and Casing: White. 2mm ABS.

Indication: LEDs (Signal, Alarm, Tamper)

<u>Temperature</u>: *Storage:*-20°C to 50°C. Certified:-10°C to 40°C *Nominal:*-10°C to 50°C *Dimensions (H x W x D)*: 27 x 104 x 25mm. Magnet: 14 x 49 x 16mm

9.1.5	Magnet	Detection	Performance

		Without Nomir	nal Distance	With Nominal	Distance (5mm)
Axes of	Event	Distance in	Distance on	Distance in	Distance on
Operation		Air	Iron	Air	Iron
Z+	Remove	35mm	24mm	32mm	20mm
	Approach	33mm	20mm	30mm	18mm
Z-	Remove	35mm	22mm	32mm	20mm
	Approach	33mm	20mm	30mm	18mm
Y	Remove	24mm	12mm	20mm	7mm
	Approach	22mm	10mm	18mm	5mm
X+	Remove	14mm	13mm	16mm	10mm
	Approach	13mm	12mm	15mm	9mm
X-	Remove	14mm	12mm	14mm	12mm
	Approach	13mm	11mm	13mm	11mm



Spacers available if required: SPACER-WE and SPACERBROWN-WE

9.2 MC2-WE

The MC2-WE is Two Way Wireless magnetic contact / universal transmitter with 2 reed / 1 input and tamper input.



9.2.2 Installation Notes

It is recommended the MC2-WE is learned at the control panel. A signal strength test should then be performed to make sure the most suitable location is chosen, ensuring optimum wireless range.

9.2.3 Installation Surfaces

NOTE: The MC2-WE can be mounted on typical building materials; such as wood, PVC, brick or metal etc. If you do encounter any problems with different surfaces, please contact customer.support@pyronix.com

9.2.4 Magnet Detection Performance

Axes of Operation	Event	Dista in Aiı	ince	Dista on Ir	nce on	Signal/ Message	
		1	2	1	2		Y ← ↓ ■
Z+	Remove	29mm	29mm	16mm	16mm	Intrusion	
	Approach	28mm	28mm	15mm	15mm	Stand-by	X- Z-
Z-	Remove	29mm	29mm	16mm	16mm	Intrusion	
	Approach	28mm	28mm	15mm	15mm	Stand-by	
Y	Remove	14mm	15mm	5mm	6mm	Intrusion	2
	Approach	13mm	1 4 mm	4mm	5mm	Stand-by	
X+	Remove	18mm	15mm	14mm	13mm	Intrusion	
	Approach	17mm	1 4 mm	13mm	12mm	Stand-by	XX+ =
X-	Remove	9mm	13mm	5mm	8mm	Intrusion	
	Approach	8mm	12mm	4mm	7mm	Stand-by	Z-

9.2.5 Technical Specification

Battery:

Type: 3.0V CR2 Lithium Battery. *Threshold:* 2.5V +/- 5% at 25°C. *Life:* Up to 2 Years <u>Wireless:</u>

Transmission Frequency: 868MHz, FM Transceiver Narrow Band

Transmission Method: Fully encrypted rolling code

Transmission Range: 1.6km free space

Materials and Environment

Colour and Casing: White (or Brown: MC2BROWN-WE). 2mm ABS

Indication: LEDs (Signal, Alarm, Tamper)

Temperature: Storage:-20°C to 50°C. Certified:-10°C to 40°C. Nominal:-10°C to 50°C

Dimensions (H x W x D): 115 x 36 x 30mm. Magnet: 56 x 13 x 17mm

Front and rear tamper.

2 reed switches, 1 external input and 1 external tamper input.

NOTE: The use of external inputs will make the system unable to comply with EN50131-1.



9.3.1 Installation Notes

It is recommended the MC1SHOCK-WE is learned at the control panel. A signal strength test should then be performed to make sure the most suitable location is chosen, ensuring optimum wireless range.

9.3.2 Installation Surfaces

NOTE: The MC1SHOCK-WE can be mounted on typical building materials; such as wood, PVC, brick or metal etc. If you do encounter any problems with different surfaces, please contact customer.support@pyronix.com

9.3.3 Magnet Detection Performance

Axes of Operation	Event	Distance Air in	Distance on Iron	Signal/ Message	X+
Z+	Remove Approach	26mm 24mm	22mm 20mm	Intrusion Stand-by	
Z-	Remove Approach	23mm 20mm	19mm 17mm	Intrusion Stand-by	y
Y	Remove Approach	24mm 22mm	11mm 9mm	Intrusion Stand-by	
Х+	Remove Approach	14mm 14mm	13mm 13mm	Intrusion Stand-by	
Х-	Remove Approach	13mm 13mm	12mm 12mm	Intrusion Stand-by	▼ Z- X-

Spacers available if required: MC1S/SPACER-WE and MC1S/SPACERB-WE.

9.3.4 Technical Specification

Battery:

Type: 3.0V CR123A Lithium Battery. *Threshold*: 2.5V +/- 5% at 25°C. *Life:* Up to 2 Years <u>Wireless:</u>

Transmission Frequency: 868MHz, FM Transceiver Narrow Band

Transmission Method: Fully encrypted rolling code

Materials and Environment

Colour and Casing: White. 2mm ABS

Indication: LEDs (Signal, Alarm, Tamper). GREEN=MC. RED=SHOCK.

Temperature: Storage:-20°C to 50°C. Certified:-10°C to 40°C. Nominal:-10°C to 50°C

Dimensions (H x W x D): 30 x 115 x 35mm. Magnet: 17 x 56 x 12.7mm

Compatible with the Enforcer 32-WE, PCX and EURO control panels (Enforcer 32-WE wireless expander only).

Front and rear tamper. 1 external input & 1 external tamper input (normally closed).

NOTE: The use of external inputs will make the system unable to comply with EN50131-1.

9.4 KX12DT-WE

NOTE: All Two Way wireless detectors learn the same way as shown below.



9.4.1 Technical Specifications

Input Configuration: Type: Normally Closed.

Lens/Detection

KX12DT-WE: 12m volumetric coverage, 60 zones (30 positive, 30 negative), 7 planes, 85° (2.4m mounting height)

KX10DTP-WE: 10m volumetric coverage, 50 zones (25 positive, 25 negative), 5 planes, 85°(2.4m mounting height)

KX12DQ-WE: 12m volumetric coverage, 60 zones (30 positive, 30 negative) 7 planes, 85°(2.4m mounting height)

KX10DP-WE: 10m volumetric coverage, 50 zones (25 positive, 25 negative), 5 planes, 85°(2.4m mounting height)

KX25LR-WE: 25m long range coverage, 46 zones (23 positive, 23 negative) 6 planes, 17°(2.4m mounting height)

KX15DC-WE: 15m curtain coverage, 24 zones (12 positive, 12 negative), 6 planes, 20°(2.4m/4m mounting height)

Detection Speed: 0.3- 3.0m/s

Sensitivity: High or Low

Battery: 1 x 3.0V CR123A. Threshold: 2.5V +/- 5% at 25°C.

(Battery KX12DT & KX10DTP: <u>2 x 3.0V CR123A</u>. Threshold: 2.5V +/- 5% at 25°C) Life: Up to 2 Years

Wireless: Transmission Frequency: 868MHz, FM Transceiver Narrow Band

Transmission Method and Range: Fully encrypted rolling code/1.6km free space

Materials and Environment

Colour and Casing: White. 3mm ABS

Indication: LEDs (Signal, Alarm, Tamper)

Temperature Compensation: Advanced Automatic

Temperature: Storage:-20°C to 50°C. Certified:-10°C to 40°C. Nominal:-10°C to 50°C **Dimensions (H x W x D):** 117 x 69 x 50mm (KX12DT-WE & K10DTP-WE = 117 x 69 x 59mm) Compatible with the Enforcer 32-WE, PCX and EURO control panels (EURO-ZEM32-WE/PCX-RIX32-WE only).

Do not partially or completely obscure the detectors field of vision

NOTE: The KX brackets are optional.

Enforcer 32-WE Wireless Setup Manual

9.5 KF4-WE



9.5.1 Technical Specifications

Operation: Button Configurations (all programmable):

ⓑ, ⓑ, I, II, ⓓ+í, I+II, ⓓ+I, and í+II.

Button Actions: Show status, Arm/Set area, Disarm/Set area, Latch output, Timed output and Personal Attack.

Battery: Battery: 1 x CR-1/3N Li-Mn Cell 3.0V (BATT-CR1/3N).

Threshold: 2.1V +/- 5% at 25°C. Life: Up to 2 Years.

Wireless:

Transmission Frequency: 868MHz, FM Transceiver Narrow Band. Transmission Method: Fully encrypted rolling code

Code combinations: 4294967295.

Materials and Environment

Indication: LEDs (Red, Green, Amber)

Temperature: Storage:-20°C to 50°C. Certified:-10°C to 40°C. Nominal:-10°C to 50°C.

Dimensions (H x W x D): 72 x 30 x 20mm. Weight: 28g

Compatible with the Enforcer 32-WE, PCX and EURO commercial control panels (using the Wireless Expander).

9.6 Deltabell-WE

9.6.1 Inserting the Deltabell Module



9.6.2 Installing the Deltabell Battery



NOTE: Older Deltabell products were supplied with a single cylindrical battery type (1x BATT-CR34615D) instead of the two square batteries (2x BATT-ES1) in the current product. The different battery types are NOT INTERCHANGEABLE between products.

Replace <u>like with like</u> under all circumstances (see p24 for specs).







9.6.2 Technical Specification

Battery:

(OLD) ROUND TYPE BATTERY D Cell 3.0 Volt, 11Ah (single round unit) - **BATT-CR34615D** Low voltage: 2.2V +/-5% at threshold: 25°C

(NEW) SQUARE TYPE **2 x** Battery 3.0V 5Ah Flat pack (in one square housing) – **BATT-ES1** Low voltage: Batt1: 2.2V +/-5% at 25°C Batt2: 2.5V +/-5% at 25°C

Acoustic output: Tone. Strobe duration: 10mS. Strobe Frequency: 1Hz. Sound pressure level: 101dBA Max sound duration: 15 mins Dimensions: 290 x 285 x 50 mm Reverse polarity protected

10. Notes	



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