CROW
FW2-NEPTUNE-8F/9F

TWO WAY WIRELESS OUTDOOR SOUNDER W. BATTERY

INSTRUCTION MANUAL
P/N 7101275_C

PRODUCT FEATURES

The FW2-NEPTUNE is an advanced slim designed wireless outdoor sounder that extends the sound of your alarm outside your premises.

The FW2-NEPTUNE can be powered by Lithium Battery 3.6V/14Ah or by external power supply 9-12V/0.8A or both.

- ISM Radio GFSK
- Ultra Low current consumption
- Powered by 1 Lithium battery – TITUS ER34615M 3.6V
- Wall and Front cover tamper protection
- Battery life up to 5 years
- Operating Frequencies: 868-916MHz
- Event Transmission:
  Tamper Open/Close
  Supervision
  Battery status
- Flash LED indications
- Up to 500m transmission range in open space

PRODUCT OVERVIEW
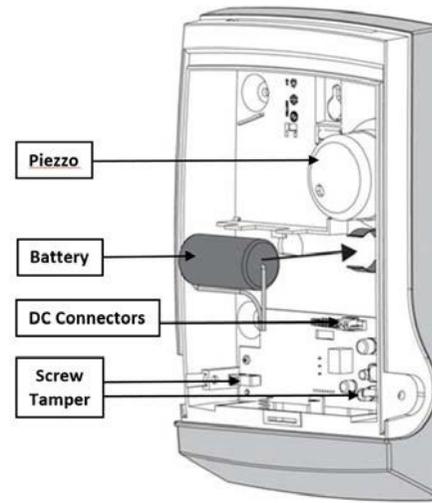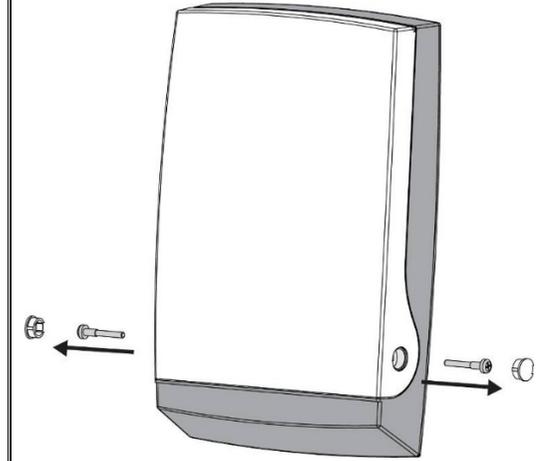

Figure 1

DEVICE OPENING

Figure 2

1. Remove the two pivot screws that secure the Siren cover
2. Slide Up the cover device
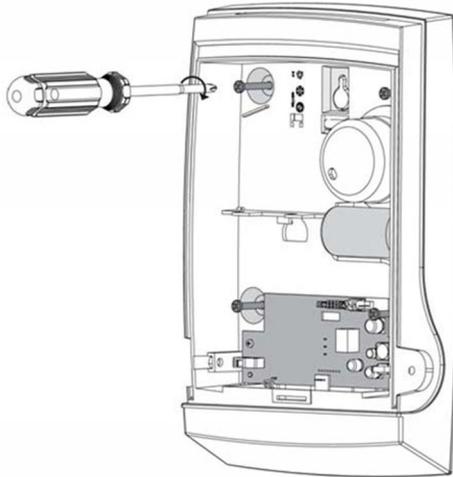
WALL MOUNTING

Figure 3
Wall installation

Place the unit on the installation surface and mark out the four screw holes

Use a 8 mm bit to drill the holes

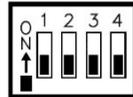Fix the unit onto the installation surface.

Ensure that the Piezo Siren is connected to the Piezo connector

DIPSWITCHES SETTINGS

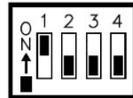The FW2-Neptune can be paired on all Crow control panels and RF modules.

The pairing compatibility has to be set by using dipswitches on PCB before inserting the battery or DC

Pairing to Shepherd™ control panel or RF Module UART

All switches in OFF position.
Mode and functions set up of the siren is configurable from the control panel.

Pairing to Runner™ or Serenity™ control panels

Move the switch "1" to ON (up), to activate switches "2", "3" and "4" which are dedicated to siren mode and functions set up as per table below.

Dip-switch Num.	Shepherd	Serenity/Runner		
1	OFF	ON	Serenity / Runner	
2	N/A	ON		Arm	Disarm
			Battery ok	2 flashes	1 flashes
			Low battery	3+3 flashes	2 flashes
3	N/A	ON		Arm	Disarm
			Battery ok	2 Beeps	1 Beep
			Low battery	3+3 Beeps	2 Beep
4	N/A	ON	Flasher and Buzzer timeout is 15 min. if dipswitch is OFF timeout is 2 min.		

Note (for Shepherd default): The Alert sound time is 3 minutes and The Alert flasher time is 30 minutes. Activation time can be changed from Outputs level (see installation manual)
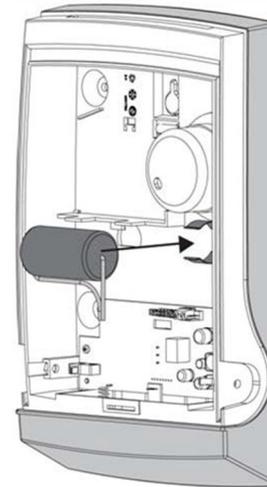
BATTERY INSERTION

Figure 4
Batteries insertion

Insert the battery into the battery clip and connect it to the **BAT** connector (see Figure 1).

Batteries can be replaced by the user

CAUTION

**RISK OF EXPLOSION
IF BATTERY IS REPLACED BY DIFFERENT TYPE / MODEL.
DISPOSE USED BATTERIES
ACCORDING TO ITS INSTRUCTIONS**

PAIRING PROCESS

For pairing process, please refer to your control panel instructions.

To pair your sounder, please proceed as follows:
1. Enter in installing mode via the" installer Webpage"..

2. Go to Outputs and select the output # you want to learn.

3. Add Output – (insert link type "ISM" Device's ID, Device type "smart siren".

4. Set Siren Configuration output, and save configuration.

5. Place the battery as instructed in figure 4 and wait until the red/green LED stops blinking.

6. The device should register to the Control Panel.

7. When registration process is successfully completed, the Green LED will constantly light ON for 3 seconds and then turn OFF.

8. If Green LED continues flashing more than 5 minutes and stopped. Please check siren settings details, remove battery and repeat step 5,6,7.

TESTING THE DEVICE

We recommend testing your sounder after pairing to check its goods functioning.

After the pairing is completed verify that the sounder is working properly:

- Perform Arm/Disarm verify Beep/Led indications.

- Perform an Alarm; verify Piezo and LED is activated.

- Perform Alarm Reset by User pin code.

EVENTS TRANSMISSION

SUPERVISION
A periodical transmission indicating detector's presence.

ALARM
Siren sound from the device indicating alarm in progress. The white LED blinking during the operation.

LOW BATTERY
Whenever batteries reach the low level (2.9V), a Battery Low signal will be sent. When Battery level drops below Cut Off level (2.5V) the device will stop functioning and the Red LED will blink for 10 seconds and then turned Off.

TAMPER
Whenever the device is removed from the bracket, a message will be transmitted with "Tamper ON" signal. When cover will be returned a "Tamper OFF" signal will be transmitted.

You should reset this tamper alarm on your control panel.

SPECIFICATION

Alert Method	Internal Piezo and LED
Sound Level	More than 102dB (at 1 meter)
Flash Light	LED indications
ISM Radio	5 GFSK
Operating Frequencies	868 MHz/916Mhz
Identification	Unique ID serial number – 24 bit
Events Transmission	Alarm, Tamper, Supervision, Low Bat.
Supervision Time	7 min by default
Transmission Range	500m in open space
Battery	1 Lithium batteries 3.6V TITUS ER34615M D Type
Battery life	Up to 5 years Standby: 110uA ±10uA@ Batt operation 20mA±2mA@12V DC operation Alarm: Average: 950mA @ Batt operation.
Current Consumptions	Average: 200mA @ 12V DC operation
Transmission Power	Up to 14 dBm
	Low Bat 2.9V Cut Off 2.5V
Tamper Switch	Cover and Wall Removal
Operating temperature	-30°C to +70°C
Dimensions	317mm x 209mm x 62mm
Weight (incl. battery)	1.2 kg.
Case Protection	IP 54

STANDARDS APPROVALS

The FW2-NEPTUNE conforms to the essential requirements set out by:
- RED directive:2014/53/EU
- EMC directive: 2014/30/EU
- Low Voltage directive: 2014/35/EU

Harmonized Standards applicable to this products are:
- EN300220-2
- EN300220-1
- EN301489-3
- EN301489-1
- EN50130-4

- EN61000-6-3
- EN60950-1
- EN50131-1
- EN50130-5
- EN50131-5-3

Certification body: Telefication B.V.

Additional Standards and Directives applicable to this product are:
- RoHS directive: 2002/95/EC
- EN50131-4
- IEC 60529

Security Grade2, Environmental Class 4
Storage type X

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These instructions supersede all previous issues in circulation prior to September 2018