supervised low-current wireless detector that

includes a DECT ULE transceiver for reliable

A dedicated cable is supplied with this device.

This DECT ULE TMP uses smart message control,

which verifies that all messages are successfully

This DECT ULE TMP detector includes series of

messages for full communication administration (Keep Alive, Tamper Status, Battery Status, Alert, Configuration, etc.) as well as test transmission

transmitted, so that no event will be uninformed to

This DECT ULE TMP detector is an advanced, fully

INTRODUCTION

system operation

DECT ULE-TMP

TEMPERATURE DETECTOR

CR-DU-TMP EURO CR-DU-TMP USA



ELECTRONIC ENGINEERING LTD.

INSTALLATION INSTRUCTIONS P/N 7105195REV. B (O.Z.)

Issue Date: July 6th, 2015

signals

Open the screw cover and unscrew the holding

- screw as shown in Figure 1.
- the front cover as shown in Figure 1. Break one piece of the Bracket corners
- (Horizontal/Vertical) as shown in Figure 2. Genteelly connect the External Temperature
- sensor cable to its location as shown in Figure 4. Be aware that the connector can be inserted in only one direction.

5. Continue with the pairing process.

FEATURES

- DECT ULE RF protocol.
- Low current Technology.
- Powered by a single 3V Lithium battery. · Battery life: up to 4 years.
- Frequency Band: All DECT Standard Bands.
- Tamper Open/Close transmission.
- Temperature reporting transmissions.
- Keep Alive transmission.
- Battery status transmission.
- Bi-Color LED indications for monitoring & Pairing.
- Range up to 500m on open space.
- Back tamper.
- 2 sensors Internal & External (optional).
- Remotely configurable.
- Friendly Pairing and Installation processes.

OPERATION

The DECT ULE TMP detector transmits the following events data:

KEEP ALIVE - A periodical transmission indicating detector's presence. The time interval is configurable - the minimum value is 3 seconds.

ALARM - Indicating that measured Temperature is out of defined Low / High thresholds. The Red LED will blink once.

Temperature Monitoring – A periodic transmission (configurable) indicating the measured Internal or External temperature.

LOW BAT - A transmission indicating the battery reached a pre-set low level (~2.5V). When Battery level drops below Cut Off level (~2.3V) the device will stop functioning and the Red LED will constantly light On.

TAMPER - Whenever the cover is removed from Bracket or the device is tear off from the wall, a message will be transmitted with "Tamper ON" signal. When cover will be returned a "Tamper OFF" signal will be transmitted

PREPARE THE DEVICE FOR INSTALLATION

- Separate the device from the Bracket by tilting
- according to the device installation orientation



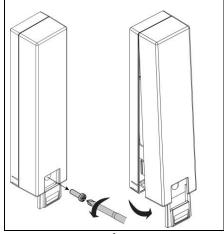


FIGURE 2 - DEVICE ORIENTATION

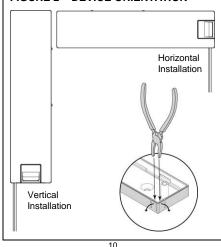
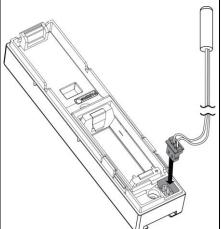


FIGURE 3 - INSTALL THE CABLE



PAIRING PROCESS

- 1. Place a battery as instructed in Figure 4 and wait until the Red LED stops blinking.
- 2. Initiate the Base Station pairing process.
- 3. Initiate the device pairing process by pressing the pairing button for 5 seconds the pairing button is shown in Figure 5. The Green LED will constantly turn On. When the Green LED starts blinking release the pairing button.
- . The device should register to the Base Station.
- 5. When registration process is successfully completed the Green LED will constantly light On for 3 seconds and then turn off.
- 6. If registration process failed the Red LED will blink (remove the battery and run the pairing process again).

FIGURE 4 - BATTERY INSERTION

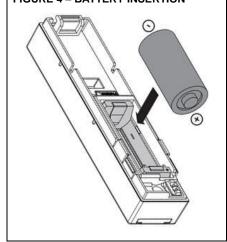
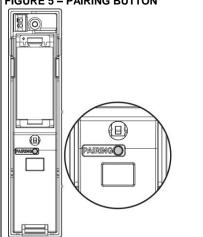


FIGURE 5 - PAIRING BUTTON



SELECT MOUNTING LOCATION

It is recommended to mount the device vertically on a flat area to get maximum range.

As the detector is a wireless transceiver, and in order to take full advantage of its sophisticated operation, do not install the detector in areas where large metal objects could interfere with the transmission of signals.

TRANSMISSION TESTS

Tamper transmission test -

Changing the tamper switch state (by attaching / removing the device to / from the Bracket) will cause tamper transmissions. Verify receiving the indication on your Application / Base Station.

Identification transmission test -

Use your Application / Base Station and send Identification Request to the device. The device will start blinking the Green & Red LEDs alternately – 5 times each LED starting with the Green LED

MOUNTING THE DETECTOR

- Separate the device from its bracket by unscrewing the holding screw and tilting the front cover as shown in Figure 1.
- Mount the Bracket to the surface by using the adhesive tape strip or by using the 3 screws as shown in Figure 6. If using the screws, make sure to tighten the tamper screw - the middle
- Perform the Pairing process as described above in this document.
- Place the device in the Bracket by inserting it back into its appropriate position and validate receiving the Tamper Alert Off indication on your Application / Base Station.
- Fasten the holding screw and close the screw cover.
- 6. Mount the External sensor snap in its location by removing the paper from the adhesive tape and glue the snap to its location
- Insert the External sensor into the snap as shown in Figure 7.

BATTERY REPLACEMENT

- 1. Open the screw cover and unscrew the holding screw as shown in Figure 1.
- 2. Separate the device from the Bracket by tilting the front cover as shown in Figure 1
- 3. Remove the in used battery from the device.
- 4. Install the new battery in the correct polarity marking as seen in Figure 4.
- 5. Wait until the Red LED stops blinking.
- 6. In case the device was paired to a Base Station the device should automatically register again to the same Base Station and the Green LED shall constantly light On for 3 seconds.
- Create Tamper transmission, and validate receiving it on your Application / Base Station.
- 8. Place the device in the Bracket by inserting it back into appropriate position.

9. Fasten the holding screw and close the screw

19

REGULATORY APPROVALS

This DECT ULE detector conforms to the essential requirements set out by:

- RTTF directive:1999/5/FC
- EMC directive: 2004/108/EC
- Low Voltage directive: 2006/95/EC
- RoHS directive: 2011/65/EU

Harmonized Standards applicable to this products are:

- EN301406
- EN301489-6
- EN301489-1
- EN61000-6-3
- EN60950-1
- EN50581 III 2017
- C22.2 No.205-12

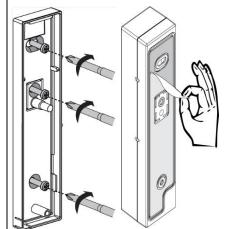








FIGURE 6 - MOUNTING THE DEVIC



FCC ID: NFC-CRDU 8164A-CRDU

FCC & IC STATEMENT

This device complies with FCC Rules Part 15 and with Industry Canada license-exempt RSS standard(s). Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

Canada: Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

WARNING:

Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Crow Electronic Engineering Ltd.) could void the user's authority to operate the equipment.

TECHNICAL SPECIFICATIONS

RF Protocol DECT ULF Modulation Type

Signaling Type

Non - Emergency signaling Type (NM)

1880-1900 MHz - Europe Frequency 1920–1930 MHz - USA/Canada Event Transmission Temperature, Tamper, Keep

Alive, Battery status. Detection Method Internal & External sensors

>500m Range in open space

Lithium. 3V Type: CR123A Size: 2/3A

Battery life expectancy >4 years (10 activation per day) Standby Current Consumptions: 4μΑ

Average Maximum (TX) 250mA Low Battery 2.5VDC

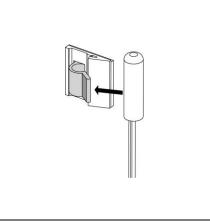
Cut Off Battery 2.3VDC

Transmit Power (Typ.): 23dBm (EURO), 20dBm (USA) Tamper Switch Back Tamper

-10°C to +55°C Operating temperature Dimensions 104mm x 24mm x 22mm Weight 50 gr. (inc. battery 65 gr.)

Maximum Cable Length

FIGURE 7 - MOUNTING THE SENSOR



FCC & IC STATEMENT (Continue)

Note: The digital circuit of this device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -Reorient or relocate the receiving antenna.
-Increase the separation between the equipment and

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -Consult the dealer or an experienced radio/TV technician for help

CAUTION !!!

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

ATTENTION !!! RISQUE D'EXPLOSION SI LA PILE EST REMPLACÉE PAR UN TYPE INCORRECT.

> The battery must be replaced by 3V Lithium battery Size 2/3A Models such as:

> > 1. VARTA CR123A 2. GP CR123A

> > > 23

CROW ELECTRONIC ENGINEERING LTD. ("Crow") - WARRANTY POLICY CERTIFICATE

This Warranty Certificate is given in favor of the purchaser (hereunder the "Purchaser") purchasing the products directly from Crow or from its

This Warranty Certificate is given in favor of the purchaser (hereunder the "Purchaser") purchasing the products directly from Crow or from its authorized distributor.

Crow warrants these products to be free from defects in materials and workmanship under normal use and service for a period of 24 months from the last day of the week and year whose numbers are printed on the printed circuit board inside these products (hereunder the "Warranty Period"). Subject to the provisions of this Warranty Certificate, during the Warranty Period, Crow undertakes, at its sole discretion and subject to Crow's procedures, as such procedures are form time to time, to repair or replace, free of charge for materials and/or labor, products proved to be defective in materials or workmanship under normal use and service. Repaired products shall be warranted for the remainder of the original Warranty Period. All transportation costs and in-transit risk of loss or damage related, directly or indirectly, to products returned to Crow for repair or replacement shall be borne solely by the Purchaser.

Crow's warranty under this Warranty Certificate does not cover products that is defective (or shall become defective) due to: (a) alteration of the products (or any part thereoff) by anyone other than Crow; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product which Crow did not provide; (d) Isilure caused by software or hardware which Crow did not provide; (e) use or storage other than in accordance with Crow's specified operating and storage instructions.

There are no warranties, expressed or implied, of merchantability or fitness of the products for a particular purpose or otherwise, which extend beyond the description on the face hered.

This limited Warranty Certificate is the Purchaser's sole and exclusive remedy against Crow and Crow's sole and exclusive liability toward the Purchaser in connection with the products, Including without limitation - for defects or malfunctions of the products. This

person injury or property loss or damage by burglary, robbery, fire or otherwise; or that these products will in all cases provide adequate warning or protection.

Purchaser understands that a properly installed and maintained product may in some cases reduce the risk of burglary, fire, robbery or other events occurring without providing an alarm, but it is not insurance or a guarantee that such will not occur or that there will be no personal injury or property loss or damage as a result.

Consequently, Crow shall have no liability for any personal injury; property damage or any other loss based on claim that these products failed to give any warning.

If Crow is held liable, whether directly or indirectly, for any loss or damage with regards to these products, regardless of cause or origin, Crow's maximum liability shall not in any case exceed the purchase price of these products, which shall be the complete and exclusive remedy against Crow.

CROW ELECTRONIC ENGINEERING LTD.

12 Kineret St. Airport City, 70100 Israel Tel. +972 3 9726000 Fax. +972 3 9726001 sales@crow.co.il support@crow.co.il www.thecrowgroup.com

CROW LATIN AMERICA USA INC.

7200 NW 19 st Suite 307

Miami FI 33126, USA Tel. +305 513 4001 Fax. +305 513 4005

rejane@crowlatinamerica.com