DECT ULE-TMP

TEMPERATURE DETECTOR

CR-DU-TMP-IL CR-DU-TMP-EU



ELECTRONIC ENGINEERING LTD.

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

INTRODUCTION

This DECT ULE TMP detector is an advanced, fully supervised low-current wireless detector that includes a DECT ULE transceiver for reliable system operation.

A dedicated cable is supplied with this device.

This DECT ULE TMP uses smart message control, which verifies that all messages are successfully transmitted, so that no event will be uninformed to

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

FEATURES

- DECT ULE RF protocol.
- Low currentTechnology.
- 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 1 minute.

ALARM - Alarm transmission triggered by the device indicating intrusion detection.

LOW BAT - Whenever the battery reaches a preset low level (~2.5V) Battery Low signal will be sent. 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

- Open the screw cover and unscrew the holding screw as shown in Figure 1.
- Separate the device from the Bracket by tilting the front cover as shown in Figure 1.
- Break one piece of the Bracket corners, as shown in Figure 2, according to the device installation orientation (Horizontal/Vertical) as shown in Figure 3.
- 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.
- Continue with the pairing process.

FIGURE 1 - SEPARATE FROM BRACKET

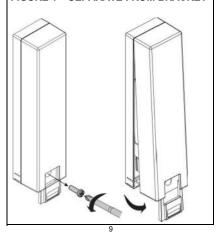


FIGURE 2 - BREAK THE BARACKET

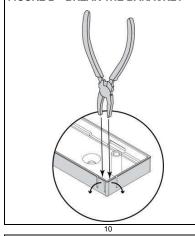


FIGURE 3 - DEVICE ORIENTATION

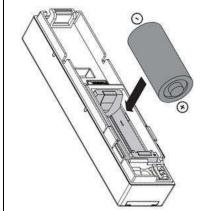
Horizontal Installation Vertical Installation

FIGURE 4 - INSTALL THE CABLE

PAIRING PROCESS

- 1. Place a battery as instructed in Figure 5 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 6. The Green LED will constantly turn On. When the Green LED starts blinking release the pairing button.
- 4. 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).





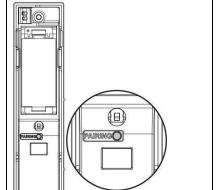


FIGURE 6 - PAIRING BUTTON

FIGURE 7 - MOUNTING THE DEVICE

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

- Open the screw cover and unscrew the holding screw as shown in Figure 1.
- Separate the device from the Bracket by tilting the front cover as shown in Figure 1.
- Mount the Bracket to the wall: place 3 screws and make sure you tighten the tamper screw the middle screw – as seen on Figure 7.
- 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
- 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 seen in Figure 7 (on the right).

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 5.
- 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.
- 7. 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 cover

REGULATORY APPROVALS

requirements set out by:
• RTTE directive:1999/5/EC

EN301406

• EN301489-6

EN301489-1

EN61000-6-3

• EN60950-1

EN50581

• EMC directive: 2004/108/EC

RoHS directive: 2011/65/EU

Low Voltage directive: 2006/95/EC

This DECT ULE detector conforms to the essential

Harmonized Standards applicable to this products are:

GFSK 1880-1900 MHz Frequency Bandwidth 1400 KHz ±50 KHz Max Frequency offset:

TECHNICAL SPECIFICATIONS

Modulation Type

Max output powe Max Input Power (E.I.R.P)r: 20dBm/100mW 15dBm/31mW Max Tx 480mA - Max Rx 135mA Current Event Transmission Temperature, Tamper, Keep

DECT ULE

Alive. Battery status. Detection Method Internal & External sensors Range in open space >500m Lithium. 3V Type: CR123A

Size: 2/3A

Battery life expectancy 4 years (10 activation per day)

Current Consumptions: Standby 4μΑ Average 19uA

Maximum (TX) 250mA 2.5VDC Cut Off Battery 2.3VDC

23dBm Transmit Power (Typ.): Tamper Switch Back Tamper Operating temperature 10°C to +55°C Dimensions 105mm x 25mm x 22mm

Weight 50 gr. Maximum Cable Length 1m

CAUTION !!!

RISK OF EXPLOSION IF BATTERY IS REPLACED BY DIFFERENT TYPE / MODEL.

DISPOSE USED BATTERIES ACCORDING TO ITS INSTRUCTIONS

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

> > 1. VARTA CR123A 2. GP CR123A

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

CEO

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 crown 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 crown warrants these products (hereunder the "Warranty Period"). 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 replace

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 thereof) by anyone other than Crow; (b) accident, abuse, negligence, or improper maintenance; (c) failure caused by a product 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 hereof.

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 Warranty Certificate replaces all other warranties and liabilities, whether oral, written, (non-mandatory) statutory, contractual, in tort or otherwise. In no case shall Crow be liabile to anyone for any consequential or incidental damages (inclusive of loss or profit, and whether occasioned by negligence of the Crow or any third party on its behalf) for breach of this or any other warranty, expressed or implied, or upon any other basis of liability whatsoever. Crow does not represent that these products can not be compromised or circumvented; that these products will prevent any 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.

protections.

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

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

Consequency, Glow anian later to a manager with a considerable of the company of

CROW ELECTRONIC ENGINEERING LTD.

12 Kineret St. Airport City, 70100Israel Tel. +972 3 9726000 Fax. +972 39726001 sales@crow.co.il support@crow.co.il

CROW LATIN AMERICA USA INC.

7200 NW 19 st. Suite 307 Miami FI 33126, USA Tel. +305 513 4001 Fax. +305 5134005 rejane@crowlatinamerica.com www.crowlatinamerica.com