



DE2276U

English

tyco | Visonic

# MCT-241

Pendant Transmitter

## User's Guide

### 1. INTRODUCTION

The MCT-241 is a PowerCode™ miniature, microprocessor-controlled personal UHF transmitter. It is designed to transmit coded alert signal in distress or in other emergency situations. The transmitter is waterproof and suitable for wearing in a shower.

The transmitter is activated by depressing the recessed oval pushbutton at the center of the unit (see Fig. 1). A built-in timer determines the transmission time to 3 seconds, even if the user maintains the transmission button depressed shorter or longer than that.

When triggered, the transmitter transmits a unique, factory programmed, randomly selected 24-bit digital alarm code. This code is selected from 16 million possible codes and is therefore unique and virtually impossible to reproduce.

Operating power is obtained from an internal 3V Lithium battery.

A red LED (see Fig. 1) lights steadily during the transmission, giving reassurance to the user and indicating that the battery condition is good. If the LED flashes each time the transmitter is activated, it indicates that the battery voltage is low and must be replaced as soon as possible.

The transmitter case is sealed (no screws) to enable the waterproof feature. Therefore, battery replacement can only be done in the factory.

If the transmitter is activated while the battery voltage is low, a 'low battery' alarm code is transmitted. If the transmitter is not activated for a long period, the battery is self-tested every 12 hours. After three consecutive 'low battery' states, a supervisory 'low battery' alarm code is transmitted.

The transmitter case is waterproof, hermetically sealed (no screws) and therefore disposable. Do not attempt to open the transmitter case or replace the battery; such action will void the warranty.

The transmitter is supplied with two wearing accessories, a neck cord (to be worn around the neck - see figure 2) and a clip (to be attached to the user belt or shirt pocket - see figure 3).

The neck cord includes a built-in safety release mechanism. This neck cord must never be replaced with a cord that does not include a safety release.

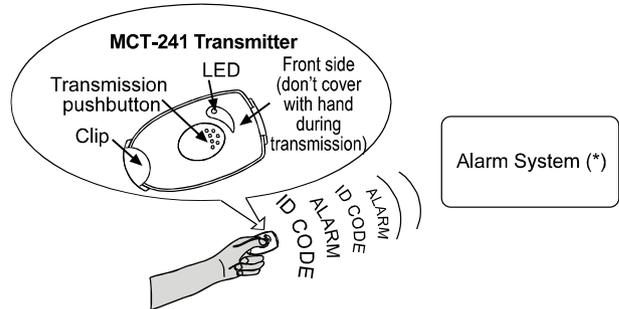


Figure 1 - Using the MCT-241

\* An alarm system with PowerCode™ receiver or interface (like POWERMAX, MCR-308, EXP-1600W, etc.), in which the RFR-4 receiver module is installed.

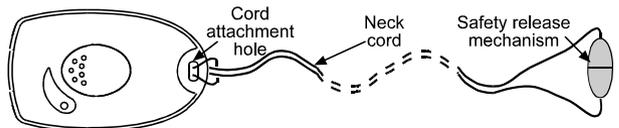


Figure 2 - MCT-241 with Neck Cord

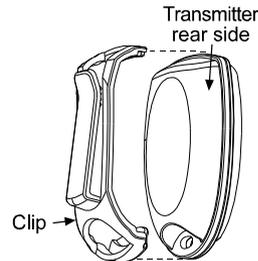


Figure 3 - Clip Attachment

### 2. SPECIFICATIONS

**Frequency (MHz):** 315, 433.92, 868.95, 869.2125, 869.2625 or other frequency according to the requirement in the country of use.

**Frequency Tolerance:** ± 120 kHz

**Channel Bandwidth:** 500 kHz

**Transmitter Output Power:** <10 dBm

**Modulation:** A.S.K (on-off keying)

**Encoding:** Factory programmed, 24-bit digital word

**Transmission Duration:** 3 seconds (even if the user keeps the transmission button depressed shorter or longer than that)

**Power Supply:** 3 V CR-2 type Lithium battery

**Battery Life Expectancy:** Up to 7 years, based on one transmission per day

**Caution!** Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the manufacturer's instructions.

**Battery Condition Indication and Reporting:**

- A. **Good battery** - the LED lights steadily upon transmission.
- B. **Low battery** - when transmission button is pressed, 'low battery' alarm code is transmitted and the LED flashes.

C. **Battery self-test and reporting** - every 12 hours and if 3 consecutive "low battery" states are detected, a "low battery" alarm is transmitted.

**Operating Temperature:** 0°C to 50°C (32°F to 122°F)

**Dimensions (H x W x D):**

**With Clip:** 73 x 41 x 30 mm (2-7/8 x 1-5/8 x 1-3/16 in.)

**Without Clip:** 67 x 41 x 21 mm (2-5/8 x 1-5/8 x 13/16 in.)

**Weight:** 35 g (with clip), 30 g (without clip)

**Color:** Gray

**Compliance with Standards:**

Europe: EN 300 220, EN 301 489, EN 50130-4, EN 60950-1

Hereby, Visonic Ltd. declares that the radio equipment type MCT-241 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<http://www.visonic.com/download-center>

## 3. MISCELLANEOUS COMMENTS

### 3.1 Product Limitations

Our wireless systems are very reliable and are tested to high standards. However, due to their low transmitting power (required by FCC, DTI and other regulating authorities) there are some limitations to be considered:

- A. Receivers may be blocked by radio signals occurring on or near their operating frequencies, regardless of the code selected.
- B. A receiver can only respond to one transmitted signal at a time.
- C. Wireless equipment should be tested regularly (at least once a week) to determine if there are sources of interference and to protect against faults.

**WARNING:** Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### 3.2 Frequency Allocations for Wireless Devices in European (EU) Countries

- 433.92 MHz has no restriction in any EU member state.
- 315 MHz is not allowed in any EU member state

- 868.95 MHz (wide band) is allowed in all EU member states
- 869.2625 MHz (narrow band) is not restricted in any EU member state.

### 3.3 Battery Replacement/Handling

The internal Lithium battery replacement can be done only in the factory.

Since the product has a Lithium battery, please observe the following handling instructions:

- Do not dispose of batteries in fires.
- Do not short circuit.
- Observe correct polarity of cells.
- Do not crush.
- Do not puncture.
- Do not open.
- Do not dismantle.
- Do not expose to temperatures in excess of 60°C

#### WARRANTY

Visonic Limited (the "Manufacturer") warrants this product only (the "Product") to the original purchaser only (the "Purchaser") against defective workmanship and materials under normal use of the Product for a period of twelve (12) months from the date of shipment by the Manufacturer. This Warranty is absolutely conditional upon the Product having been properly installed, maintained and operated under conditions of normal use in accordance with the Manufacturers recommended installation and operation instructions. Products which have become defective for any other reason, according to the Manufacturers discretion, such as improper installation, failure to follow recommended installation and operational instructions, neglect, willful damage, misuse or vandalism, accidental damage, alteration or tampering, or repair by anyone other than the manufacturer, are not covered by this Warranty. There is absolutely no warranty on software, and all software products are sold as a user license under the terms of the software license agreement included with such Product.\* The Manufacturer does not represent that this Product may not be compromised and/or circumvented or that the Product will prevent any death and/or personal injury and/or damage to property resulting from burglary, robbery, fire or otherwise, or that the Product will in all cases provide adequate warning or protection. The Product, properly installed and maintained, only reduces the risk of such events without warning and it is not a guarantee or insurance that such events will not occur.

#### Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use of the Products. It does not cover:

- damage incurred in shipping or handling;
- damage caused by disaster such as fire, flood, wind, earthquake or lightning;
- damage due to causes beyond the control of the Seller such as excessive voltage, mechanical shock or water damage;
- damage caused by unauthorized attachment, alterations, modifications or foreign objects being used with or in conjunction with the Products;
- damage caused by peripherals (unless such peripherals were supplied by the Seller);
- defects caused by failure to provide a suitable installation environment for the products;
- damage caused by use of the Products for purposes other than those for which they were designed;
- damage from improper maintenance;
- damage arising out of any other abuse, mishandling or improper application of the Products.

#### Items Not Covered by Warranty

In addition to the items which void the Warranty, the following items shall not be covered by Warranty: (i) freight cost to the repair centre; (ii) customs fees, taxes, or VAT that may be due; (iii) Products which are not identified with the Seller's product label and lot number or serial number; (iv) Products disassembled or repaired in such a manner as to adversely affect performance or prevent adequate inspection or testing to verify any warranty claim. Access cards or tags returned for replacement under warranty will be credited or replaced at the Seller's option.

**THIS WARRANTY IS EXCLUSIVE AND EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS OR LIABILITIES, WHETHER WRITTEN, ORAL, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR OTHERWISE. IN NO CASE SHALL THE MANUFACTURER BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS WARRANTY OR ANY OTHER WARRANTIES WHATSOEVER, AS AFORESAID.**

**THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES OR FOR LOSS, DAMAGE, OR EXPENSE, INCLUDING LOSS OF USE, PROFITS, REVENUE, OR GOODWILL, DIRECTLY OR INDIRECTLY ARISING FROM PURCHASER'S USE OR INABILITY TO USE THE PRODUCT, OR FOR LOSS OR DESTRUCTION OF OTHER PROPERTY OR FROM ANY OTHER CAUSE, EVEN IF MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.**

**THE MANUFACTURER SHALL HAVE NO LIABILITY FOR ANY DEATH, PERSONAL AND/OR BODILY INJURY AND/OR DAMAGE TO PROPERTY OR OTHER LOSS WHETHER DIRECT, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, BASED ON A CLAIM THAT THE PRODUCT FAILED TO FUNCTION. HOWEVER, IF THE MANUFACTURER IS HELD LIABLE, WHETHER DIRECTLY OR INDIRECTLY, FOR ANY LOSS OR DAMAGE ARISING UNDER THIS LIMITED WARRANTY, THE MANUFACTURER'S MAXIMUM LIABILITY (IF ANY) SHALL NOT IN ANY CASE EXCEED THE PURCHASE PRICE OF THE PRODUCT INVOLVED, WHICH SHALL BE FIXED AS LIQUIDATED DAMAGES AND NOT AS A PENALTY, AND SHALL BE THE COMPLETE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER.**

When accepting the delivery of the Product, the Purchaser agrees to the said conditions of sale and warranty and he recognizes having been informed of.

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so these limitations may not apply under certain circumstances.

The Manufacturer shall be under no liability whatsoever arising out of the corruption and/or malfunctioning of any telecommunication or electronic equipment or any programs.

The Manufacturers obligations under this Warranty are limited solely to repair and/or replace at the Manufacturer's discretion any Product or part thereof that may prove defective. Any repair and/or replacement shall not extend the original Warranty period. The Manufacturer shall not be responsible for dismantling and/or reinstallation costs. To exercise this Warranty the Product must be returned to the Manufacturer freight pre-paid and insured. All freight and insurance costs are the responsibility of the Purchaser and are not included in this Warranty.

#### For sales in Israel only:

The Purchaser shall comply with the provisions of the Israeli Consumer Protection Law – 1981 ("Consumer Protection Law") related regulations, including the Israeli Consumer Protection Regulations (Warranty Sticker), 5772-2012 ("Regulations"), including, without limitation (i) providing its customers with at least the minimum warranty required by the Consumer Protection Law, and (ii) ensuring that a warranty certificate and a warranty sticker (as defined in the Regulations) ("Warranty Sticker") shall be attached to any sold Products and the date of the sale of the Product to the consumer or the end-user shall be added in a readable manner on the Warranty Sticker.

In no event shall the Purchaser's compliance with the Consumer Protection Law and Regulations expand any of the Manufacturer's warranty obligations under this warranty, and the Purchaser shall be responsible for any warranty that it provides with respect to the Products which exceeds or is different from this warranty.

This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize any person to act on its behalf in the modification, variation or extension of this warranty. This warranty shall apply to the Product only. All products, accessories or attachments of others used in conjunction with the Product, including batteries, shall be covered solely by their own warranty, if any. The Manufacturer shall not be liable for any damage or loss whatsoever, whether directly, indirectly, incidentally, consequentially or otherwise, caused by the malfunction of the Product due to products, accessories, or attachments of others, including batteries, used in conjunction with the Products. This Warranty is exclusive to the original Purchaser and is not assignable.

This Warranty is in addition to and does not affect your legal rights. Any provision in this warranty which is contrary to the Law in the state or country where the Product is supplied shall not apply.

#### Governing Law:

This disclaimer of warranties and limited warranty are governed by the domestic laws of Israel.

#### Warning

The user must follow the Manufacturer's installation and operational instructions including testing the Product and its whole system at least once a week and to take all necessary precautions for his/her safety and the protection of his/her property.

\* In case of a conflict, contradiction or interpretation between the English version of the warranty and other versions, the English version shall prevail.



#### W.E.E.E. Product Recycling Declaration

For information regarding the recycling of this product you must contact the company from which you originally purchased it. If you are discarding this product and not returning it for repair then you must ensure that it is returned as identified by your supplier. This product is not to be thrown away with everyday waste. Directive 2002/96/EC Waste Electrical and Electronic Equipment.

EMAIL: info@visonic.com  
INTERNET: www.visonic.com  
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