1. INTRODUCTION

The MCT-124 is a hand-held, 4-button PowerCode UHF transmitter, designed specifically for distress signaling and other tasks in supervised alarm and remote control systems.

To prevent accidental distress signaling, the two side buttons (one of which is hidden in Figure 1) have to be pressed simultaneously to transmit a unique 24-bit PowerCode ID, interpreted as a call for help. The two buttons at the top can be used to arm/disarm an alarm system or to activate auxiliary devices. Pressing any one of the 2 top buttons initiates transmission of a unique 24-bit ID linked to the specific button, as if it were a separate transmitter.

Each PowerCode ID is factory-selected from 16 million possible combinations.

A built-in mode selector allows choosing between continuous transmission for as long as the button is pressed and timed 3-second transmission, no matter how long the button is pressed. Another built-in mode selector is used to enable/disable a once-per-hour (or according to local standards) supervision message.

Since messages transmitted by the MCT-124 might collide with other messages sent by other PowerCode transmitters, a smart anti-collision transmission sequence is used.

2. SPECIFICATIONS

- **Frequency (MHz):** 315, 433.92, 868.95 or 869.2625 or other frequencies according to local requirements.
- **Encoding:** 24-bit digital word, over 16 million combinations.
- **Transmission duration:** As long as the button is kept pressed, or 3-seconds (depending on DIP switch setting).
- **Power Source:** 3V lithium battery, Panasonic CR-2 or equivalent.
- **Nominal Battery Capacity:** 750 mAh
- **Battery Supervision:** Automatic reporting of battery condition data as part of any transmission.
- **Current Consumption:** 6 µA standby, 17 mA in operation (including LED).

3. PREPARATION FOR USE

3.1 Battery Installation

A. Remove the screw at the back of the unit.
B. Insert a 1/8 inch screwdriver in the slot either at the top or at the bottom of the case. Rotate the screwdriver handle slightly until one edge of the cover disengages from the base.
C. Swing up the free end of the cover and separate the cover from the base.

D. Extract the transmitter module from the base by grasping the battery holder and pulling out.

Battery Life Expectancy: 3 years (for typical use).
Operating Temperature: 0° to 49°C (32° to 120°F).
Dimensions: 104 x 44 x 24 mm (4-1/8 x 1-3/4 x 15/16 in.).
Weight: 50 g (1-3/4 oz). Color: Dark gray.


E. Insert the 3-volt Lithium battery into the battery holder, so that the (+) end of the battery coincides with the (+) markings on the printed circuit board (close to each battery clip).
F. Put the printed circuit board (with new battery) back in place.
G. Gently press one pushbutton switch and verify that the LED lights, indicating good battery condition.

3.2 Setting the Mode Selectors
Two DIP switches on the unit's printed circuit board allow you to choose between operating modes, as portrayed in Figure 4.

Figure 4. Mode Switch Tasks and Positions
The factory default settings are as shown in Figure 4. To change modes, shift the proper switch to the opposite position.

IMPORTANT! Due to a programming delay, wait 4 seconds before testing a newly selected mode.

3.3 Closing the Case
A. Carefully engage the ridge at the top of the case with the dent at the top of the cover. Press the bottom ends of both halves of the case together until they click shut.
B. Push the two rubber membranes in place at the sides of the case - the concave face should be facing out. Verify that they are seated well within their respective recesses. Work on one pushbutton at a time, so as not to trigger a distress signal!
C. Re-insert and tighten the screw at the back of the unit.

Note: If the user needs the belt clip (included), position the belt clip as shown in Figure 5 and insert the screw through the hole in the clip.

4. NOTES AND WARNINGS
Visonic wireless systems are very reliable and are tested to high standards. However, due to their low transmitting power (required by regulatory authorities), some limitations must be considered:
A. Receivers may be blocked by radio signals 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 whether 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 operation could void the user's authority to operate the equipment.

WARRANTY
Visonic Ltd. and/or its subsidiaries and its affiliates ("the Manufacturer") warrants its products hereinafter referred to as "the Product" or "Products" to be in conformance with its own plans and specifications and to be free of defects in materials and workmanship under normal use and service for a period of twelve months from the date of shipment by the Manufacturer. The Manufacturer's obligations shall be limited within the warranty period, at its option, to repair or replace the product or any part thereof. The Manufacturer shall not be responsible for dismantling and/or reinstallation charges. To exercise the warranty the product must be returned to the Manufacturer freight prepaid and insured.

This warranty does not apply in the following cases:
- Improper installation. Misuse, failure to follow installation and operating instructions, alteration, abuse, accident or tampering, and repair by anyone other than the Manufacturer.
- This warranty is exclusive and expressly in lieu of all other warranties, obligations or guarantees of any kind, 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.
- This warranty shall not be modified, varied or extended, and the Manufacturer does not authorize anyone 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 device complies with FCC Rules Part 15. 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.

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.

The Manufacturer does not represent that its Product may not be compromised and/or circumvented, or that the Product will prevent any death, personal and/or bodily 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. User understands that a properly installed and maintained alarm may only reduce the risk of events such as burglary, robbery, and fire without warning, but it is not insurance or a guarantee that such will not occur or that there will be no death, personal damage and/or damage to property as a result.

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, the Manufacturer's liability, whether directly or indirectly, for any loss or damage arising under this limited warranty or otherwise, regardless of cause or origin, the Manufacturer's maximum liability shall not in any case exceed the purchase price of the Product, which shall be fixed as liquidated damages and not as a penalty, and shall be the complete and exclusive remedy against the Manufacturer.

Warning: The user should follow the installation and operation instructions and among other things test the Product and the whole system at least once a week. For various reasons, including, but not limited to, changes in environmental conditions, electric or electronic disruptions and tampering, the Product may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.