

MCT-201, MCT-201 WP

PowerCode Pendant Transmitters

1. INTRODUCTION

The MCT-201 is a miniature pendant UHF transmitter, designed for use in advanced, high-security alarm and remote control systems. When enclosed in a waterproof case, this transmitter's reference designation is MCT-201WP. Transmission is activated by depressing the recessed pushbutton at the center of the unit. When activated, each transmitter sends out a 24-bit ID code and an alarm code, identifiable by compatible wireless receivers of the MCR family. Each transmitter's code is randomly selected in the factory from 16 million possible combinations. The code is therefore unique and virtually impossible to reproduce.

Operating power is obtained from an internal 12-volt alkaline battery. An LED lights during transmission, indicating the battery voltage condition (it lights provided that the battery voltage exceeds 8 VDC). If the LED does not light during transmission, the battery must be replaced immediately.

In addition, a transmitter with such a low battery will automatically send a low battery code with each transmission.

Compatible receivers are designed to identify this code and operate audible or visual alert devices.

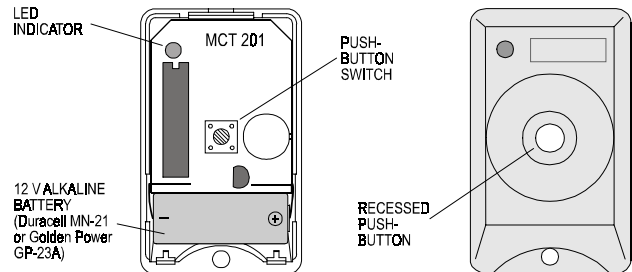


Figure 1. MCT-201

All MCT-201 units are supplied with the chain installed, to be worn around the neck as a pendant transmitter. A key ring is also included in the package, for use in place of the chain.

2. SPECIFICATIONS

Frequency (MHz): 315, 433.92, MHz 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.

Power Supply: 12-volt alkaline battery (Duracell MN-21, Golden Power GP-23A, or equivalent).

Attention: Transmitter characteristics may be affected by battery condition.

Dimensions:

MCT-201: 32 x 53 x 17 mm (1-1/4 x 2-1/8 x 11/16 in.).

MCT-201WP: 40 x 61 x 18 mm (1-9/16 x 2-3/8 x 23/32 in.)

Weight: 22 g (0.7 oz).

Operating Temperature: 0° to 49°C (32° to 120°F).

Color: White.

Compliance with Standards: Meets FCC Part 15, MPT1340 and Directive 1999/5/EC

This device complies with the essential requirements and provisions of Directive 1999/5/EC of the European Parliament and of the Council of 9 March 1999 on radio and telecommunications terminal equipment.

3. INSTALLATION

3.1 Battery Installation

A. To open the case, refer to Figure 2. Insert an 1/8 inch screwdriver blade in the slot at the bottom of the case. Press the blade inward, applying moderate pressure, and while pressing, swing the handle slightly down until the covers partially separate.

Warning! Do not try to open the case by inserting a screwdriver in places other than the slot. This can damage the transmitter.

B. Gently complete separation of the front and back covers with your fingers.

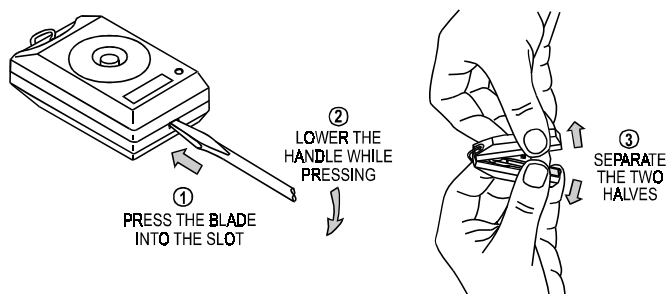


Figure 2. Opening the Case

C. Insert the 12-volt alkaline battery (Duracell MN-21 or Golden Power GP-23A or equivalent) between the battery clips, so that the (+) and (-) markings on the battery are in the same direction as the markings on the rear half of the case (close to each battery clip). Check that the battery is held securely by the battery clips.

D. Gently press the pushbutton switch and verify that the LED lights, indicating good battery condition.

3.2 Closing the Case

Carefully engage the ridges at the top of the rear cover with the dents at the top of the front cover. Gently press together the bottom ends of both covers, until they snap shut.

3.3 Waterproof Version (MCT-201 WP)

The MCT-201WP is a waterproof version of the MCT-201 transmitter. Waterproof units are shipped fully assembled but not closed, to permit insertion of the battery before final sealing. The case is made waterproof when its two halves are assembled and secured together with 4 screws.

To prepare the unit for use, separate the two halves of the case and lay the unit down on its back as shown in Figure 3.

Insert the cylindrical 12 V battery between the battery clips. Observe polarity!

Reassemble the two halves of the case and lay the unit face down. Put a screw in each of the four holes on the back (screws are supplied in a small bag packed with the unit). Carefully tighten all 4 screws with phillips screwdriver No. 1.

The unit should now be watertight and ready for use.

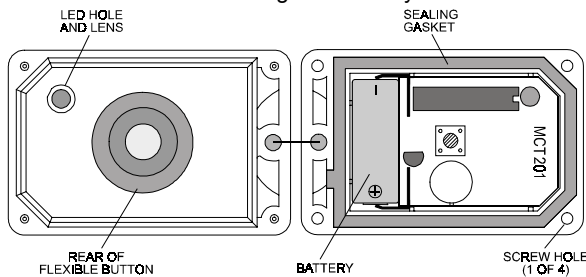


Figure 3. Inside View of the MCT-201WP

3.4 Testing

- Perform the learning procedure as instructed in the particular receiver's installation instructions, to enroll the transmitter's ID in the receiver's memory.
- Stand 3 m (10 ft) away from the receiver and operate the transmitter.
- Verify that the transmitter LED lights, indicating good battery condition.

- Observe that the receiver LED lights, indicating detection of the transmitted RF signal.
- Verify activation of the receiver's corresponding output.
- Operate the transmitter from various locations within the area covered by the receiver to determine "dead" locations, where transmission is obstructed by walls and large objects, or affected by structural materials.

3.5 Key-Ring Installation

- Remove the chain by opening and slipping it through the triangle on top of the MCT-201.
- Insert the tip of a long-nose pliers into the triangle and open it.
- Remove the triangle.
- Open the plastic bag which contains the key-ring kit.
- Slip the key-ring triangle through the last link of the key-ring chain and insert the triangle into the hole on the upper edge of the MCT-201 (Fig. 4).
- Using the pliers, close the key-ring triangle.

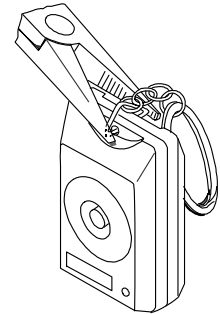


Figure 4. Key-ring Installation

4. NOTES AND WARNINGS

4.1 Product Limitations

Visonic Ltd.'s wireless systems are very reliable and are tested to high standards. However, due to their low transmitting power (required by FCC and other regulatory authorities) there are some limitations to be considered:

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

4.2 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 (except for Belgium).
- 869.2625 MHz (narrow band) is not restricted in any EU member state.

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.

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 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.

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.

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, if the Manufacturer is held liable, 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.