

# WT-101, 101A, 102

## Hand-Held Wireless Transmitters



Visonic

## Installation Instructions

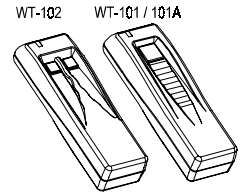
### 1. INTRODUCTION

The WT-101 and WT-102 are hand-held wireless transmitters, powered by a standard 9 VDC battery (Alkaline or Lithium types preferred).

The transmitters are compatible with Visonic Ltd. wireless receivers of the WR-200 and WR-300 series. A system code must be selected by setting an 8-position DIP switch and transmission is initiated by depressing the button(s) on the unit.

An LED lights during transmission, indicating the battery condition (it lights if the battery voltage is above 7.5 VDC). If the LED does not light during transmission, the battery must be replaced immediately.

Each unit is fitted with a belt clip.



### 2. SPECIFICATIONS

**Operating Frequencies:** 315, 404, 418, 433.9 MHz, depending upon country of operation.

**System Code:** 8-bit digital word, 256 combinations, pulse width modulation.

**Channel Code:** 4-bit digital word, pulse width modulation.

**Compliance with Standards:** Meets FCC Part 15, MPT 1340, and Directive 1999/5/EC

**Power Supply:** Standard 9-Volt Battery

**Current Consumption:** 12 mA typical (during transmission only).

**Battery Check:** Good battery - LED lights steadily upon transmission.

Low battery - LED flickers or doesn't light upon transmission.

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

**Dimensions (H x W x D):** 108 x 35 x 26 mm (4-1/4 x 1-3/8 x 1in.)

**Weight (excluding battery):** Approximately 35 gr (1.2 oz)

**Attention:** Transmitter characteristics may be affected by battery condition.

#### MODEL VARIATIONS

**Model WT-101** (see Fig. 1): This model activates the receiver's "channel 1" output relay.

**Model WT-101A** (see Fig. 2): This model can be programmed to activate any one of the 4 output relays in the receiver - from "channel 1" to "channel 4".

FCC ID: GSAWT101A; CANADA: 1467 202 271A

**Model WT-102** (see Fig. 3): The gray button activates the receiver's "channel 1" output relay, and the red button activates "channel 2" output relay.

FCC ID: GSAWT102A; CANADA: 6515 1467 K694

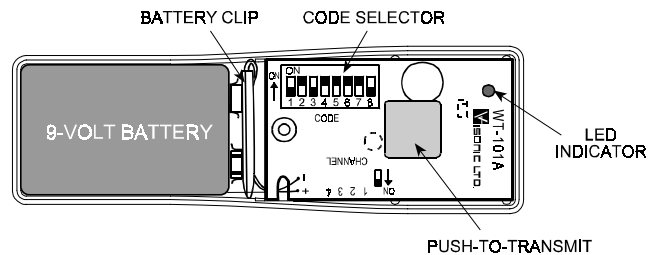


Figure 1. WT-101, Cover Removed

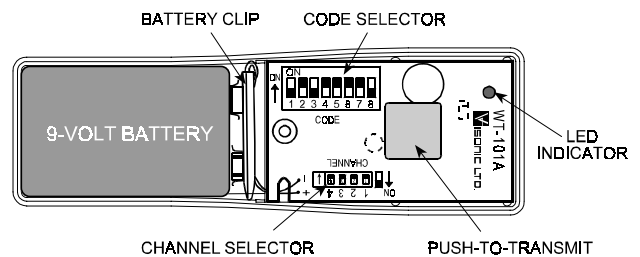


Figure 2. WT-101A, Cover Removed

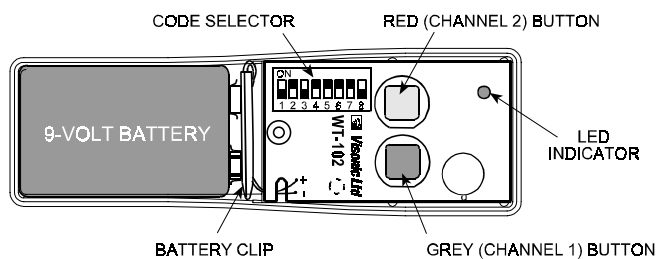


Figure 3. WT-102, Cover Removed

### 3. INSTALLATION

#### 3.1 Connecting the Battery

A. Remove the screw and the belt clip at the back of the unit (see Figure 4).

B. Position the transmitter with the front side up and detach the front cover from the base.

C. Install the battery clip onto the 9-Volt battery. Position the battery as shown in Figures 1, 2 and 3.

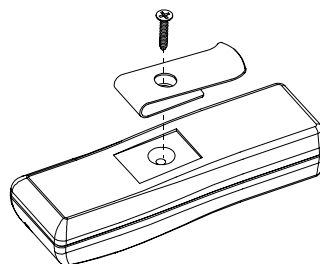


Figure 4. Screw and Belt Clip

#### 3.2 Selecting the System Code

All models have an 8-position DIP switch (marked 1 - 8, see Fig. 5). Each switch may be set to ON or OFF, creating a unique digital system code.

Use a ball-point pen to set each of the switches to match the code setting of the target receiver.

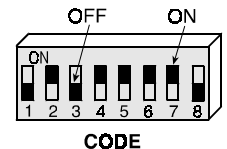


Figure 5. Code Selector

**CAUTION:** The code combination 2, 4, 5, 6, 7 ON and 1, 3, 8 OFF (as shown in Figure 5) is a factory test code that should be avoided. Also do not select "easy" codes such as all keys ON, all keys OFF or alternating ON/OFF settings.

### 3.3 Setting the Channel Code (WT-101A only)

The WT-101A transmitter is equipped with a 4-position DIP-switch marked CHANNEL (Fig. 6) that serves as a channel selector. By means of this switch, the transmitter can be programmed to activate one of 4 outputs at the receiver.

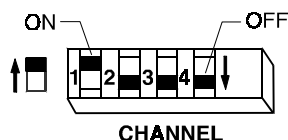


Figure 6. Channel Selector

This feature is important for zoning purposes – activating different alarm zones of a control panel via a multi-output receiver. The channel data transmitted by the WT-101A is selected by setting the switch with the desired channel number to ON. Use a ball point pen to set the channel selector as required.

### 3.4 Assembly and Testing

A. Carefully position the front cover in place, press it against the base and turn the unit with its back up. Position the belt clip as shown in Figure 4 and re-insert the screw.

- B. Stand 3 meters (10 feet) away from the receiver and operate the transmitter.
- C. Verify that the transmitter LED lights, indicating good battery condition.
- D. Observe that the receiver LED lights, indicating detection of the transmitted RF signal.
- E. Make sure that the expected end result is obtained:  
**WT-101:** Verify activation of the "channel 1" output relay at the receiver.  
**WT-101A:** Verify activation of the desired output relay at the receiver, according to the channel selected.  
**WT-102:** Verify that the transmitter gray pushbutton activates the receiver's "channel 1" output relay and that the red pushbutton activates the receiver's "channel 2" output relay.
- F. Operate the transmitter at various locations within the reception range to determine "dead" spots, where transmission may be blocked.

## 4. MISCELLANEOUS COMMENTS

### 4.1 Product Limitations

Visonic Ltd. wireless systems are very reliable and are tested to high standards. However, due to their low transmitting power and limited range (required by FCC and other regulatory 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 transmitter signal at a time.
- C. Wireless equipment must be tested regularly to reveal sources of interference and to protect against faults.

### 4.2 Compliance with Standards

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.

The 315 MHz model of this device complies with Part 15 of the FCC Rules and RSS-210 of Industry and Science Canada. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received, including interference that may cause undesired operation.

The user is cautioned that changes or modifications to the unit, not expressly approved by Visonic Ltd., could void the user's FCC authority to operate the equipment.

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

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

### 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.

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