

# WMX-16

## Wireless Channel Expander



## Installation Instructions

### 1. DESCRIPTION

The WMX-16 wireless channel expander is designed for use in combination with the Visonic Ltd. WR-200/4B receiver, to provide fifteen channel outputs and one low-battery supervisory output.

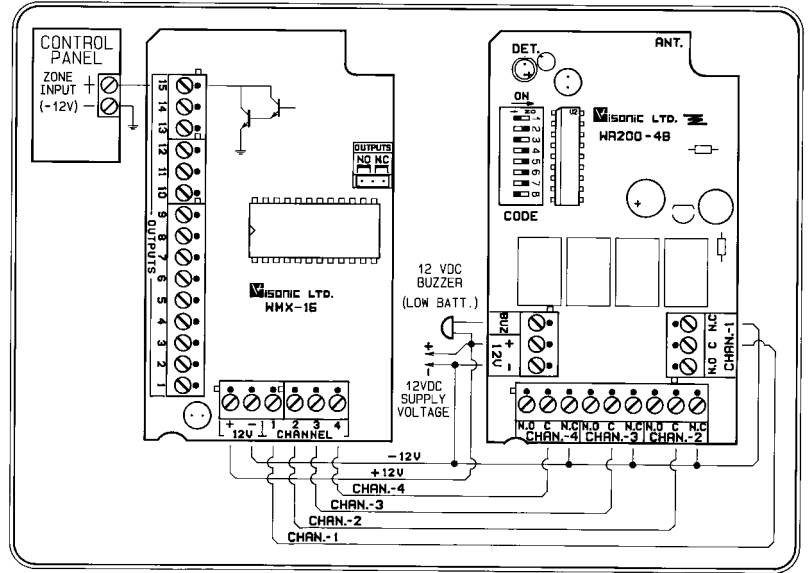
### 2. SPECIFICATIONS

**Power Input:** 12VDC  $\pm$  15%.

**Channel Output Rating:** 0.2A /12 VDC resistive.

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

**Current Consumption:** 10 mA.



### 3. INSTALLATION

#### 3.1 Wiring

- Install all transmitters and the WR-200/4B receiver as per their installation instructions.
- Mount the WMX-16 Close to or within the control panel.
- Wire the WR-200/4B to the WMX-16 as per the wiring diagram.
  - Observing correct polarity, connect 12VDC in parallel to the WR-200/4B and the WMX-16.
  - On the WR-200/4B, connect a wire from (-) 12VDC to each channel relay normally closed (N.C.) terminal (channels 1 thru 4).
  - On the WR-200/4B wire each channel relay common (C) terminal to its respective input terminal on the WMX-16.
- Connect WMX-16 outputs to the appropriate (positive) control panel zone inputs.

The WMX-16 provides 15 open Collector (-12VDC) outputs. These outputs may be configured for either all normally open, or all normally closed operation depending upon your control panel requirements. This feature is jumper programmable (see circuit board diagram).

**Note:**

The WMX-16 uses darlington type output transistors which when in the ON state will drop about 1.0 to 1.5 volts at the output. This may cause problems with some control panels especially when End of Line (E.O.L.) resistors are used on the input zones, if the WMX-16 is used in the Normally Closed (N.C.) configuration.

In such cases it is recommended that the WMX-16 will be used in the Normally Open (N.O.) configuration, so that the darlington output switch will short circuit the E.O.L. resistors when it is activated.

- Determine which terminal is positive (+) for each zone input on your control panel.

If the installation instructions do not specify the positive terminal you can use a voltmeter to determine which terminal is positive. Place the probes of your voltmeter on the two zone input terminals of your control panel while the loop is open. If you get a negative reverse polarity reading, switch the voltmeter probes around.

Once you obtain a normal reading, note which terminal on the control panel is in contact with the voltmeters positive probe. This is the zone input positive (+) terminal.

Find the positive terminals of the remaining control panel zone(s) to be used with the WMX-16.

Wire each of the used WMX-16 outputs (1 thru 15), to its respective (+) zone input terminal on the control panel.

#### 3.2. Testing

- Program each wireless transmitter device to activate any of the 15 desired outputs of the WMX-16.

Use the following table for programming the four position "CHANNEL" dipswitches in each transmitter

CHANNEL ON=ON  
CHANNEL OFF=OFF

Outputs Four Position channel DIP switch in Transmitter

#	#1	#2	#3	#4
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON

- Test each transmitter per its instruction manual and verify activation of desired zone(s) on control panel.

## 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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