

MW421

UNIVERSAL TRANSMITTER

SPECIFICATIONS & INSTRUCTIONS

APPLICATION

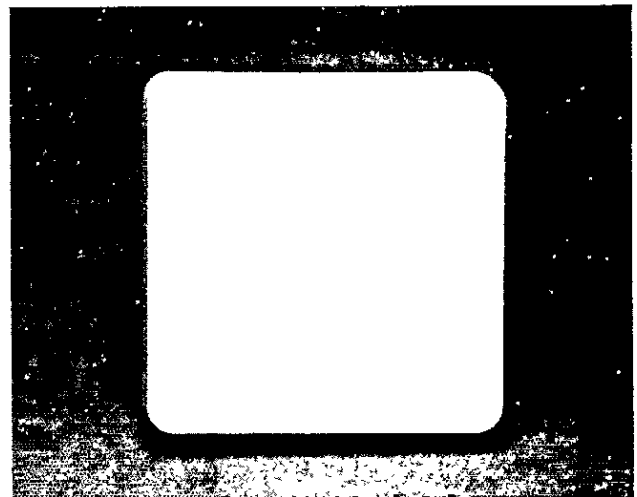
The MW421 is a universal purpose supervised wireless transmitter. It enables all standard contacts, PIRs and other closed circuit devices to be used with compatible wireless security controls.

FEATURES

- ❑ Dual antennae for more reliable transmission.
- ❑ Fast, easy installation.
- ❑ Fully supervised.
- ❑ Transmits: Alarms, tamper, supervisory and low battery.
- ❑ Normally closed (closed circuit) operation.
- ❑ Long battery life (average 2-3 years).
- ❑ Small, neutral color case.
- ❑ Long range.
- ❑ Tamper protected.
- ❑ Surface mount technology.
- ❑ Pre-programmed wireless address (no dip switches).

SPECIFICATIONS

- ❑ Color: Off white.
- ❑ Dimensions: 2.65" x 2.65" x .9"
- ❑ Input: Screw terminals for normally closed (closed circuit) contacts. Maximum loop resistance: 100 ohms.
- ❑ Operating voltage: 2.5 to 4.0 VDC.
- ❑ Current consumption (at 3.6VDC):
Stand-by: 20 μ A typical (including sensor supervisory circuit), 30 μ A maximum.
Alarm: 22 mA typical, 25 mA maximum.
- ❑ Battery: $\frac{2}{3}$ A size, 3.6V-1.5Ah lithium with plug-in connector.
- ❑ Low battery detection: 2.5 to 2.65 VDC.
- ❑ RF emission: Complies with F.C.C. Rules Part 15, F.C.C. ID. No. HHV26PECA249502N;
Complies with DOC Rules TRC-51, Issue 2 and GL 17 Rev. 3, Certification No. 216 K941.
- ❑ RF carrier used: 318.6 MHz.
- ❑ RF oscillation: Crystal controlled.
- ❑ Operating temperature: 32°F to 122°F (0°C to 50°C).
- ❑ Storage temperature: -4°F to +140°F (-20°C to +60°C).



INSTALLATION

1. Remove the cover by inserting a small screwdriver into any of the four slots in the lower part of the cover and twisting (See Figure 1).

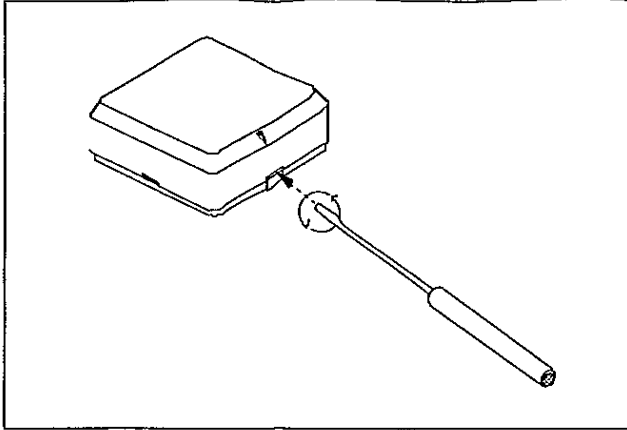


Figure 1

2. Mount the transmitter utilizing the holes located in the upper right and lower left hand corners of the base with the (2) sheet metal screws provided.
3. Attach the closed circuit loop wires to the two input terminals (See Figure 2). 22 gauge or larger, solid or stranded wire is recommended. Stranded wire offers lower resistance and additional protection against breakage. Do not exceed 100 ohms loop resistance.
4. Plug the battery lead into the connector in the center of the circuit board and place the battery into the space provided.

NOTE: The Universal Transmitter is a Normally Closed device. To convert it to a Normally Open device, contact Aritech Corp Technical Support.

5. Copy down the six-digit Wireless Address for the device; it is located on the PC board near the battery. This number should be recorded for the device on the Program Sheet.
6. Replace the cover onto the transmitter base. (When aligned correctly, the triangle on the cover will be on the bottom when the base is positioned with the battery in the upper right hand corner).

RF CONSIDERATIONS

While phase diverse technology is vastly superior to conventional transmitters, the installer should avoid positioning the transmitters near or behind large metal appliances, utility or electrical boxes etc. The control/receiver should be positioned so that it is centrally located to all transmitters. Avoid sources of RF or EMI energy.

PROGRAMMING & TESTING

Enter the PROGRAMMING Mode on the LCD Control Station. Select the appropriate WIRELESS POINT definition and program as directed in the panel's Programming Manual. To program the device's Wireless Address, enter the six-digit number which is printed on the device's PC board near the battery. Once all desired programming has been completed, exit the PROGRAMMING Mode on the LCD Control Station. Then select the POINT TEST option from the TESTS Menu. While in POINT TEST, activate the sensor to determine if the device is transmitting. All LCD Control Stations in the area will announce an identification of the device being activated. While in POINT TEST, the panel will not initiate any alarm outputs or communication devices. (Always be sure that the panel is in POINT TEST when testing transmitters).

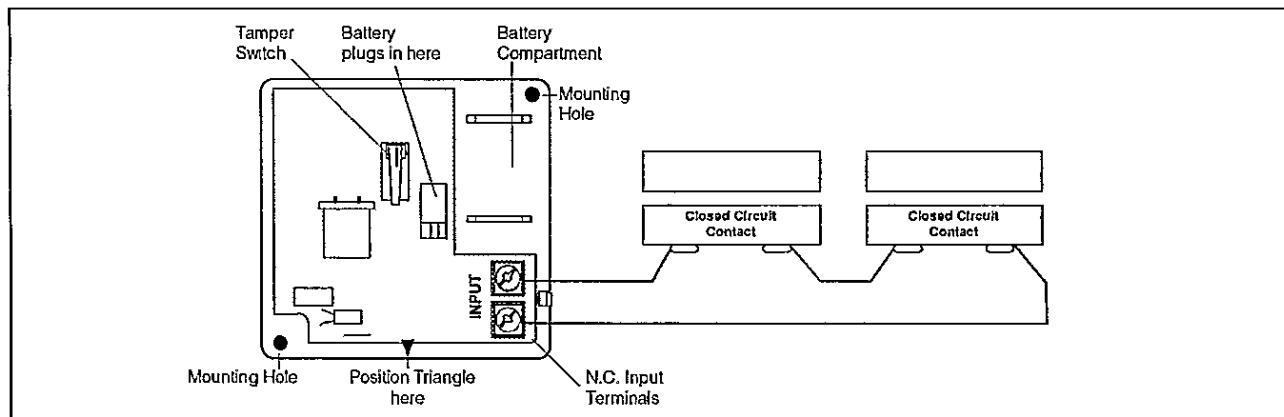


Figure 2