

# **Installation Instructions**

### General Information

The ION MICRA recessed transmitter is a reed switch magnet contact transmitter that provides concealled protection for windows. The transmitter is powered by a long-life lithium battery that is easily replaceable when a low battery condition is indicated by the control.

## Programming the ID Number

Each ION MICRA has its own unique identification code (serial number) permanently assigned during manufacturing. The electronic serial number (ESN) is located on the label attached to the antenna. This should never be removed. The control unit (receiver panel) is required to "enroll" the transmitter's ID during installation of the alarm system.

For receiver panel's that require a "Tamper" signal to enroll the sensor, each MICRA automatically sends a "Tamper" signal upon startup when the battery is inserted. If the unit does not enroll, remove the battery, touch the battery and clips together with a small screwdriver, and try inserting the battery again.

## **Preliminary Considerations**

WINDOWS: Read all of this and the next section before installing the unit

1. Select a location for the transmitter on the frame of the window. Do not use on metal frame windows, as the wireless range decreases significantly

#### ION MICRA TRANSMITTER

The transmitter will require a 3/4" diameter hole (using a 3/4" Forstner bit) drilled into the edge of the window frame no more than 1/3" deep.

BEFORE DRILLING ANY HOLES. SEE ITEM 2 BELOW AND MOUNTING SECTION ON THE

FOR VINYL SLIDING WINDOWS the preffered direction of mounting is vertical. FOR HUNG WINDOWS the iON MICRA must be mounted horizontally in the window sill with the accompanying surface mount magnet in the lower window sash. (see Step 1 - Measure &

- 2. Before drilling any holes, tape the transmitter and magnet in their approximate locations (with battery installed and unit together as described under BATTERY INSTALLATION / REPLACEMENT (see page back) and conduct Go/No Go tests (see control's instructions) to verify adequate signal strength. Re-orient or relocate the transmitter if necessary.
- 3. Make sure that no more than 1 1/2" gap will be present between the faces of the tansmitter and the magnet cases when they are installed and set. Also make sure the 'iON' graphic on the transmitter is perpendicular to the length of the magnet as per step 3.

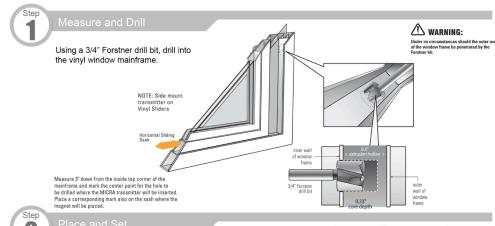
When installed, an alarm signal must be obtained before a clear space of 2" is reached as the window is opened.

# Scan OR code for installation video!



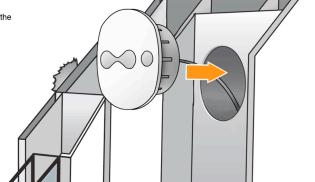
Under no circumstances should the outer wall of the window frame be penetrated by the Forstner bit.

# ION MICRA™ **Recessed Transmitter**



# Place and Set

Insert the MICRA's antenna into the extrusion holow then press the transmitter body into the cored opening.



\*It is important to always keep the antenna straight. Never cut or coil up antenna. You may fold the antenna in half if space is a concern. This may affect range



Remove adhesive backing and place MICRA Surface Mount in corresponding position to the Transmitter Magnet MICRA transmitter. It is essential to the system's operation that the

positioning of the MICRA transmitter point in the same direction as its corresponding magnet.

# ION MICRA™ **Recessed Transmitter**



**CAUTION:** Before drilling any holes, make sure that successful transmission reception tests have been conducted

CAUTION: BATTERY CAUTION: Risk of fire, explosion and burns.

Do not recharge, disassemble, heat above 212 "F (100 "C) or incinerate. Dispose of used batteries promptly. Keep away from children.

Dowel Package

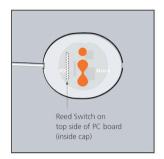
Additional Info

Wire Antenna

Windows

Doors

Fits Cavity Depth



Reed Switch Positioning

Figure 3

## MOUNTING (See Figure 1)

- 1. Mark the selected location for the transmitter on the frame of the window.
- 2. Mark the location for the surface mount magnet on the window sash, directly opposite the transmitter location. Before drilling any holes, make sure that the sucessful Go/No Go transmission reception tests have ben conducted as called for in the ION MICRA transmitter section. (see page back)
- 3. Drill a hole at the location marked, for the transmitter (3/4" diameter, no more than 1/3" deep).
- 4. Insert the transmitter into the hole so that the cap is flush with the surface. Make sure the antenna goes into the cavity as straight as possible.

DO NOT hammer the transmitter in place with hard blows. Press the transmitter in the hole by hand.

The iON MICRA uses a santaprene case that, once placed, is designed to self-seal in the mounting hole. However, if desired, a thin bead of silicon may be applied for additional moisture protection.

Compatibility

FCC

Notice

Figure 2

SPECIFICATIONS

Dimensions

Power Source

Transmit Range

Temperature Range

This device complies with FCC Rules Part 15. Operation is subject to the following two conditions: 1.This device may not cause harmful interference.

iON MICRA transmitters

0.33" depth or 1.00" depth 3.0V Lithium Coin Cell Battery CR1620

Typically >500 ft. open air

Double-Hung and Access.

Wood and Metal Frame

10° to 120° F (-10° to 50° C)

Vinyl, Wood Casement, Awning,

Dowel Lid 0.850" diameter x 0.060" thick

7 inch x 1/8" Flexible Antenna extends from sensor

0.750" diameter

2. This device must accept any interference that may be received, including interference that may

Changes or modifications not expressly approved by ION Digital LLP can void the user's authority to operate the equipment.









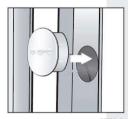








**STEP 5 & 6** 



STEP 7

### TO THE INSTALLER

Regular maintenance and inspection (at least annually) by the installer and frequent testing by the user are vital to continuous satisfactory operation of any alarm system. The installer should assume the responsibility of developing and offering a regular maintenance program to the user, as well as acquainting the user with the proper operation and limitations of the alarm system and its component parts. Recommendations must be included for a specific program of frequent testing (at least weekly) to insure the system's operation at all times

STEP 1

REFER TO THE INSTALLATION INSTRUCTIONS FOR THE RECEIVER / CONTROL WITH WHICH THIS DEVICE IS USED, FOR WARRANTY INFORMATION AND FOR DETAILS REGARDING LIMITATIONS OF THE ENTIRE ALARM SYSTEM.

# **BATTERY INSTALLATION & REPLACEMENT**

- 1. Remove the transmitter from the window by inserting the flat blade of a small screwdriver into the pry-slot on the cap end and twisting slightly counter-clockwise. The transmitter must be removed from the window complete in order to refit the transmitter properly back into the hole once the internal battery has been replaced.
- 2. Using the flat blade of a small screwdriver in the pry-slot again, separate the white cap from the base with a slight counter-clockwise twist. Once open, slide the cap with the transmitter PC board assembly apart from the base. Pull the antenna through the hole in the base just enough to allow the battery to be replaced. Do not pull the antenna completely out of the base.
- 3. Remove the old battery from it's battery holder on the bottom of the PC board.

US Patent No. 6.737.969 US Patent No. 7,081,816

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- 4. Observe correct polarity (see Figure 3 Step 3 & 4) and insert the fresh battery into the battery holder (positive polarity indicator is shown on the battery holder). Always use Energizer™ or Panasonic™ batteries.
- 5. Slide the cap with the PC board assembly back into its base by gently pulling on the antenna, easing the transmitter cap into place.
- 6. Snap the transmitter cap back onto the base, locking it into place.
- 7. Placing the antenna into the cavity first, reinsert the transmitter into its original mounting hole in the window. Be sure to point the oval shape on the cap in the same direction as the accompanying sash-mounted oval magnet.

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