

# USERS MANUAL

## **GENERAL DESCRIPTION**

The **NOVA 71** is a supervised general purpose transmitter that can be connected to magnetic contacts (door/window protection) or to other sensors. It operates together with Rokonet's programmable receivers and is powered by a standard 3-volt lithium battery.

## **NOVA 71 FEATURES**

- Operates up to 1000 FT. (300m) range (outdoor)
- Uses one of more than 16 million pseudo-randomly selected preset code addresses for setup (no DIP switches).
- Microprocessor design.
- Extended battery life.
- Fully supervised.
- Selective response time:
  - Fast - for shock sensors
  - Slow - for magnetic switches, etc.
- Selective input - N.C. or N.O.

[Fig. 3 PCB drawing ]

## **OPERATIONAL MODES**

### **NORMAL:**

The NOVA 71 transmits an ALARM MESSAGE when it is triggered; when restored, it transmits a RESTORAL MESSAGE. Only one ALARM MESSAGE is transmitted in any 2.5 minutes time slot.

**Note:** Extra restoral message can be generated by reopening and closing the inputs.

**WRITE:** A Write message will be transmitted at power-up (and also by pressing the tamper button for at least 3 seconds).

**Note:** The unit sends a supervisory message every 65 minutes indicating the input state and battery condition.

### ***BATTERY INSTALLATION & REPLACEMENT***

1. Remove the plastic cover. (See Figure 1)
2. Replace battery. (See Figure 2)
3. Close cover.
4. Perform a Communication Check with the receiver to verify proper operation.

[Fig. 1 : Opening the cover]

[Fig. 2 : Replacing battery]

### ***LED INDICATION***

After each detection, the LED turns ON momentarily.

On Low Battery condition - the LED will blink 3 times during each transmission.

### ***JUMPER SETTINGS***

The Nova 71 has four jumpers:

- **HOLD (J1)**  
OFF - 2.5 m Dead Time between alarm detections (restoral messages will be sent immediately after the condition is detected).  
ON - No Dead Time between alarm detections (the unit transmits after each detection).
- **RESPONSE TIME (J2):**  
FAST - 10 ms (for operation with shock sensor).  
SLOW - 500 ms (for operation with magnetic contacts etc.).

- EXTERNAL SENSOR MODE (J3):  
NC - Normally Closed.  
NO - Normally Open.
- INTERNAL REED SWITCH (J4):  
IN - Disabled.  
OUT - Enabled.

## **INSTALLATION PROCEDURE**

1. FRONT COVER REMOVAL (See Figure 1)
2. TRANSMITTER/RECEIVER COMMUNICATION SETUP

The **NOVA 71** must identify itself to the system's receiver by writing its coded message into the receiver's address memory. This is accomplished by performing the following steps:

- One. Set the receiver to Write Mode.
- Two. Remove the insulation material from the battery. A Write message will be sent during Power-Up. Verify that **NOVA 71** has been identified by the receiver.
- Three. Set the receiver to Normal Mode.

**Note:** if for any reason it is necessary to re-send a write message, press the tamper button for at least 3 seconds.

### ***Step 3: SELECTION OF INSTALLATION LOCATION***

- One. Select a location best suited for communication quality and near the intended wired detector (for switched sensor). Place the unit at the highest possible position.
- Two. Temporarily attach the unit to this point using two sided adhesive tape.
- Three. Generate an Alarm signal (by momentarily opening or closing the input terminals) and verify that the receiver has received the signal. If the alarm signal is not detected, reposition the NOVA 71 and try again.

Note: For best results when using NOVA II, set the receiver in the Communication Check Mode, and upon reception and verification, return it to the Normal Mode.

**Step 4: FINAL MOUNTING**

- One. Drill holes for mounting and wiring, using the mounting bracket as a guideline.
- Two. Mount the transmitter in place.
- Three. If relevant, connect the sensor to the input terminals.
- Four. Replace the front cover.
- Five. If the optional door/window magnet is used, mount it in place. Please note: the mark on the magnet's plastic case should be opposite the mark on the transmitter's case.

[Rokonet Warranty]

[Rokonet Subsidiaries]

**NOTE**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance (Rokonet Electronics Ltd.) could void the user's authority to operate the equipment.