

REMOTE THERMO SENSOR WITH LCD

MODEL : THR138
USER'S MANUAL

ENGLISH

INTRODUCTION

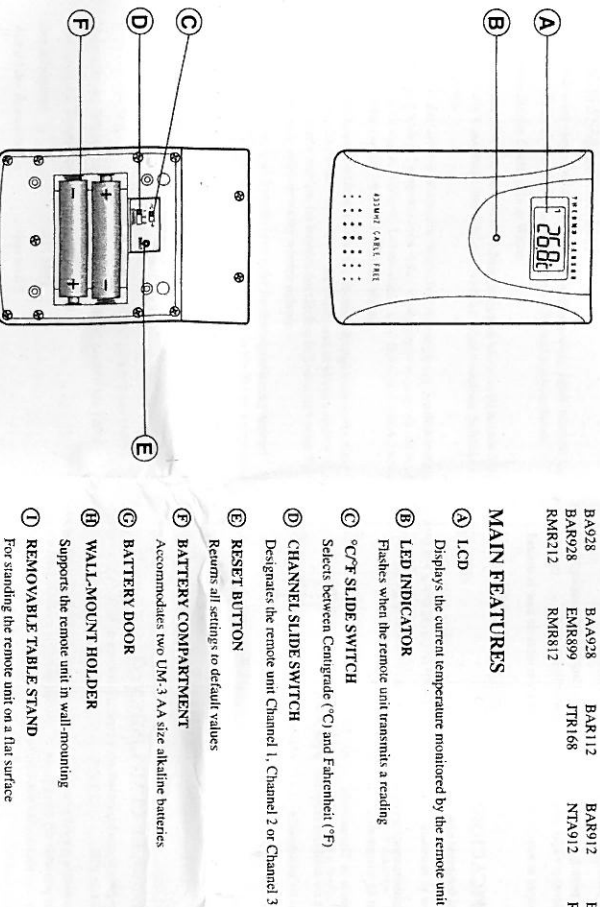
Congratulations on your purchase of the THR138 Remote Thermo Sensor. This Remote Thermo Sensor is for use with the 433MHz Multi-Channel In-Out Thermometer to monitor temperature changes of outdoor sites. Operation is easy and no wire installation is required.

COMPATIBLE UNITS:

Examples of compatible units are as follows:

BA928	BA4928	BAR112	BAR912	BAR913
BA928	EMR899	JTR168	NTA912	RRR112
RRR212	RRR812			

MAIN FEATURES



- A** LCD
Displays the current temperature monitored by the remote unit
- B** LED INDICATOR
Flashes when the remote unit transmits a reading
- C** °C/°F SLIDE SWITCH
Selects between Centigrade (°C) and Fahrenheit (°F)
- D** CHANNEL SLIDE SWITCH
Designates the remote unit Channel 1, Channel 2 or Channel 3
- E** RESET BUTTON
Returns all settings to default values
- F** BATTERY COMPARTMENT
Accommodates two UM-3 AA size alkaline batteries
- G** WALL-MOUNT HOLDER
Supports the remote unit in wall-mounting
- H** REMOVABLE TABLE STAND
For standing the remote unit on a flat surface

BEFORE YOU BEGIN

For best operation, to ensure proper reception between the main unit and the remote sensor, follow these instructions carefully.

BATTERY AND CHANNEL INSTALLATION

1. Place both units as close as possible to each other.
2. Remove the screws on the battery door of the remote unit.
3. Assign a different channel to each remote sensor by changing the channel switch in the battery compartment of the remote sensor.
4. Select the units of measurement for the temperature display on the °C/°F slide switch.
5. Install 2 alkaline batteries (UM-3 or "AA" size 1.5V) strictly according to the polarities shown.
6. Insert batteries or press the reset button of the main unit. Follow the instructions as set out in the User's manual.
7. Replace the battery compartment door and secure its screws.
8. Position the remote sensor and main unit within effective transmission range, which in usual circumstances, is 30 meters.

Note: The effective range may be limited by building materials and the position of either the main unit or remote sensors. Try various set-up arrangements for best result.

Though the sensor is weatherproof, and is meant for use outside, it should be placed away from direct sunlight, rain, or snow.

CHANGING CHANNELS

Once channel is assigned to a unit, you can only change it by removing the batteries and repeating the above procedure.

LOW-BATTERY WARNING

Replace the batteries of the sensor when the low-battery indicator of the channel represented by the sensor lights up on the main unit.

OPERATION

Once batteries are in place, the sensor will start transmitting samplings at 30-second intervals.

The remote sensor reading shown on the LCD depends on which remote sensor channel has been chosen.

HOW TO RESET THE UNIT

The reset function is required only when the unit is operating in an unfavorable way or malfunctioning.

To access:

1. Lift open the battery compartment door.
 2. Place a blunt stylus into the hole marked **RESET** and press.
 3. Replace the battery compartment door.
- See the user's manual of your main unit for further information.

HOW TO USE THE TABLE STAND OR WALL MOUNT

This sensor comes with a wall-mount holder and a removable stand. Use either to hold the unit in place. [FIG A]

PRECAUTIONS

This product is engineered to give you years of satisfactory service if you handle it carefully. Here are a few precautions:

1. Do not immerse the unit in water.
2. Do not clean the unit with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuit.
3. Do not subject the unit to excessive force, shock, dust, temperature or humidity, which may result in malfunction, shorter electronic life span, damaged battery and distorted parts.
4. Do not tamper with the unit's internal components. Doing so will invalidate the warranty on the unit and may cause unnecessary damage. The unit contains no user-serviceable parts.
5. Only use fresh batteries as specified in the user's manual. Do not mix new and old batteries as the old ones may leak.
6. Always read the user's manual thoroughly before operating the unit.

SPECIFICATIONS

Temperature Measurement

Displayed range : -50.0°C to +70.0°C (-58.0°F to 158.0°F)
Proposed operating range : -20.0°C to +60.0°C (-4.0°F to 140.0°F)

Temperature resolution : 0.1°C (0.2°F)

RF Transmission Frequency : 433 MHz

No. of Remote unit : Maximum of 3

RF Transmission Range : Maximum 30 meters

Temperature sensing cycle : around 30 seconds

Power : use 2 pcs UM-3 "AA" 1.5V alkaline battery

Weight : 83 gm (without batteries)

Dimension : 105 x 70 x 22.5 mm (H x W x D)

NOTE ON COMPLIANCE

This product complies to standards and specifications of B2T, FCC and article number 344 of PTT.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

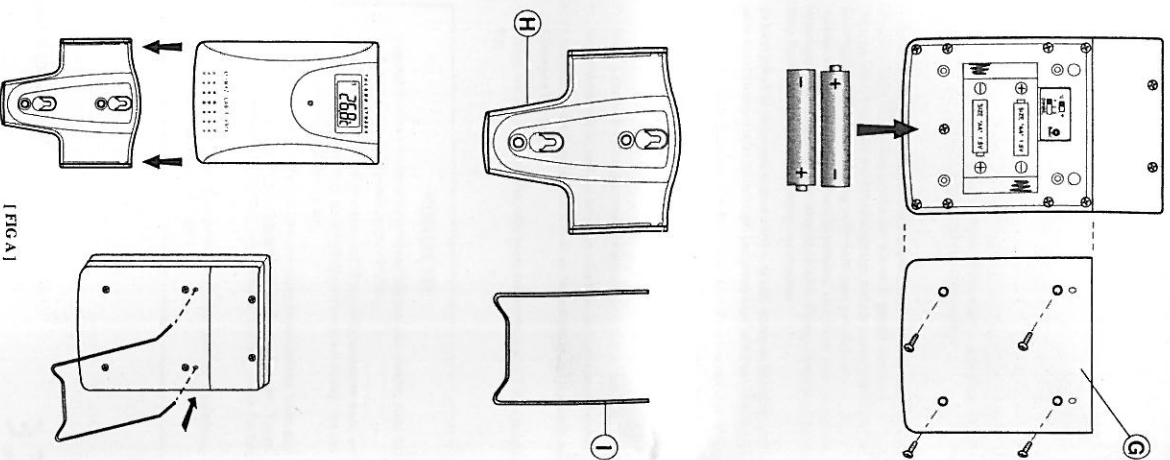
NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may 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 off and on, 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 receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer of an experienced radio/TV technician for help.

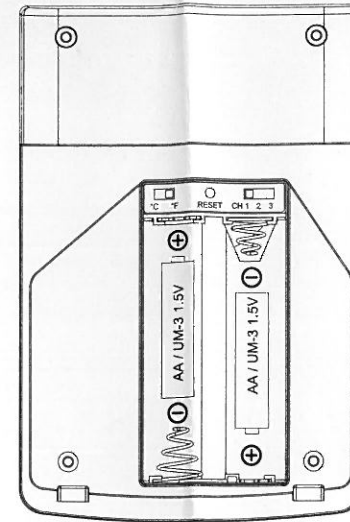
CAUTION

- The content of this manual is subject to change without further notice.
- Due to printing limitation, the display's shown in this manual may differ from the actual display.
- The manufacturer and its suppliers held no responsibility to you or any other person for any damage, expenses, lost profits, or any other claim arise by using this product.
- The contents of this manual may not be reproduced without the permission of the manufacturer.



[FIG A]

MANUAL ADDENDUM FOR BATTERY COMPARTMENT



P/N.: 086-004024-013