User manual

TS01

Outdoor Thermometer

TS21

Outdoor Thermo-Hygrometer

USER MANUAL

INTRODUCTION

This device combines precise time keeping, monitoring and displaying of pressure information and current temperature/ humidity data from up to three remote locations (additional sensors are required).

Please keep this manual handy as it contains practical instructions, technical specifications and precautions.

INSTALLATION

The communication between the main unit (receiver) and the remote sensor (transmitter) is wireless, thus simplifying the installation. The remote temperature sensor transmits data to the main unit, with an operating range of up to 100 feet (30 meters) in opened area.

The remote temperature sensor can be placed indoors or outdoors, depending on the area where the temperature is intended to be measured. If you intend to measure outdoor conditions, place the remote sensor outdoors.

NOTE:

- It is critical to power the remote sensor **BEFORE** setting up the main unit.
- It is critical to power up and **test** communication between the remote sensor and the main unit **BEFORE** permanently mounting if outside.

BEFORE YOU BEGIN

- We recommend using **alkaline batteries** for the remote sensor and the main unit. When the temperature falls below freezing point 32°F (0°C), battery voltage levels will be dropped and this may reduce the transmission range. For optimum performance, we recommend using **lithium** batteries.
- Avoid using rechargeable batteries. (Rechargeable batteries cannot maintain correct power requirements.)
- **ALWAYS** install batteries in the **remote** sensor ***before*** the main unit.
- Insert batteries before first use, matching the polarity in the battery compartment.
- During initial set up, place the remote sensor close to the main unit.
- After reception is established (remote readings will appear on the main unit's display), position the remote sensor and the main unit within the effective transmission range of up to 100 feet (30 meters).

NOTE:

- Avoid pressing any buttons on the main unit before the remote readings are displayed.
- Transmission or reception range may be affected by trees, metal structures, and electronic appliances, surrounding building materials and how the main unit and transmitter are positioned.
- Place the remote sensor so that it faces the main unit (receiver), minimizing obstructions such as doors, walls and furniture.
- Though the remote sensors are weather-resistant, they should be placed away from direct sunlight, rain or snow. The optimal location for the remote sensor outdoors is under the eaves on the north side of the building.

REMOTE TEMPERATURE (AND HUMIDITY) SENSOR (TS21 / TS01)

FEATURES

- Remote data transmission to the main unit via 433 MHz frequency

A. BATTERY COMPARTMENT

- Hold two AAA-size batteries

B. WALL-MOUNT RECESSED HOLE

- Mount the remote sensor on the wall

MOUNTING

- The remote sensor can be placed on the flat surface or mounted on the wall in vertical position.
- Use a screw, rather than a nail, for best mounting of the sensor.
- When mounting the main unit on the wall or vertical surface, fold the table stand back into the unit.

PLACEMENT

- Make sure that the main unit is locating within the operating range of all remote sensors.
- The remote sensor should be placed under eaves or a similar location with free air circulation sheltered from direct sunlight and extreme weather.
- Ideally, place the remote sensor over soil, rather than asphalt which would cause false readings.
- Avoid placing the remote sensor near sources of heat, such as chimneys and heating elements
- Avoid areas that collect heat from the sun and radiate heat, such as metal, brick or concrete structures, paving, and patios
- The international standard for the valid air temperature measurements is 4 feet (1.25meters) above the ground

OPERATION

Immediately after batteries are installed, the remote sensor will start transmitting a temperature and humidity data to the main unit.

MAINTANANCE

CHANGING BATTERIES

- If the low battery indicator lights up, replace batteries in the corresponding unit.
- Do not mix old and batteries.

CLEANING

The remote sensors housings can be cleaned with a damp cloth. Small parts can be cleaned with a cotton tip or pipe-cleaner. Never use abrasive or corrosive cleaning agents or solvents. Do not immerse electronic components in water.

PRECAUTIONS

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

- Do not immerse the units in water.
- Do not clean the units with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuits.
- Do not subject the product to excessive force, shock, dust, temperature, or humidity, which may result in malfunctions, shorter lifespan, damaged batteries, and damaged parts.
- Do not tamper with the units internal components. Doing so will invalidate the warranty and may cause damage. These units contain no user-serviceable parts.
- Use only fresh batteries. Do not mix new and old batteries.
- Read the user's manual thoroughly before operating the units.

SPECIFICATIONS

Remote Sensor
Remote Temperature
Proposed operating range with alkaline batteries:
-10°C to + 60°C (14°F to + 140°F)
Temperature resolution: 0.1°C/ 0.2°F
Humidity (Outdoor)
Operating Range: 30% to 80%
Resolution: 1%
Accuracy: 7%
Sampling Interval: 10 seconds
Transmitting Interval: around 47 seconds
RF Transmission Frequency: 433 MHz
RF range: Maximum 100 feet (30 meters)
Temperature transmission cycle: approximately 45 seconds
Wall-mount of Table stand

Power
Remote Sensor: 2 AAA size 1.5V batteries (not included)

Dimensions
Remote sensor: 37.5(L) x 110(H) x 23(W) mm

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modification 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 had 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, installed and used in accordance with the instructions, may cause harmful interference to radio communications.

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 improve or correct turning 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 to 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.

DECLARATION OF CONFORMITY

We
Name: Hideki Electronics, Inc.
Address: 7865 SW Mohawk
Tualatin, OR 97062
Contact person: Mr. James Boyle
Tel: 503-612-8395
declare that the product
Product No.: TS815
Product Name: Honeywell Wind Speed Meter
Manufacturer: Hideki Electronics Ltd.
Address: Unit 2304-06, 23/F Riley House, 88 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.

The information above is not to be used as a contact for support or sales.
Please call our customer service hotline (refer to the Standard Warranty Information) for all injuries instead.

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STANDARD WARRANTY INFORMATION

This product is warranted from manufacturing defects for **one year** from date of retail purchase. It does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and repair.

Note that online product registration is required to ensure valid warranty protection.

To register your product, go to our Company website at: www.honeywellweatherstations.com. Click Online Product Registration under the Customer Service menu.

Should you require assistance with this product and its operation, please contact our **Customer Service Hotline 1(866) 443 3543**.

Please direct all returns to the place of the original purchase. Should this not be possible, contact Hideki Customer Service Hotline for assistance and to obtain a Return Merchandise Authorization (RMA). Returns without a return authorization will be refused. Please retain your original receipt as you may be asked to provide a copy for proof of purchase.

Hideki Electronics, Inc. reserves the right to repair or replace the product at our option.

Honeywell International Inc. makes no representations or warranties with respect to this product.

All user manual contents and information are subject to change.