

Honeywell

Wireless Digital Weather Station with Analog Clock

(TC682EL)
USER MANUAL

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HONEYWELL TC682EL & TS33C MANUAL (ENG)
SIZE: W65 X H105 (mm)
BY WING TSUI 03/11/06

INTRODUCTION

Thank you for selecting the Honeywell Wireless Digital Weather Station with Analog Clock. This device combines precise time keeping with monitoring and displaying the weather conditions from up to three remote locations.

In this package you will find:

- One main unit (receiver)
- One remote sensor (transmitter) TS33C
- One User Manual

Please keep this manual handy as you use your new item. It contains practical step-by-step instructions, as well as technical specifications and precautions you should know.

PRODUCT OVERVIEW

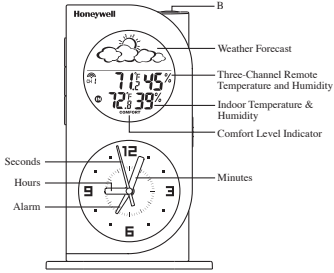
MAIN UNIT

FEATURES

- Precise Quartz Time Displayed in Classic Analog format
- Weather Forecast in Sunny, Partly Cloudy, Cloudy, Rainy and Snowy icons
- Wireless Reception of the Temperature and Humidity from the Remote Sensor to the Main Unit from up to 200 feet (60 meters) away
- Multi-Channel Capability to Monitor Temperature and Humidity in up to 3 Remote Locations
- Three Remote Channels Auto-Scan feature
- Indoor and Outdoor Temperature and Humidity display
- Comfort Level Indicators – Comfort, Wet and Dry
- Crescendo Alarm with Snooze
- Programmable Temperature Alarm for all Three Remote Channels
- Low Battery Indicators
- Enhanced Backlight for Digital Weather Display
- Bulb Backlight for Analog Time Display

FRONT VIEW

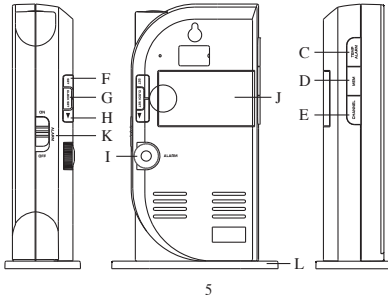
A. TIME DISPLAY IN CLASSIC ANALOG FORMAT; WEATHER DISPLAY IN DIGITAL FORMAT



B. SNOOZE/LIGHT BUTTON

- Stops the clock alarm temporarily
- Activates a backlight feature for 5 seconds

LEFT SIDE VIEW, REAR VIEW & RIGHT SIDE VIEW



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C. TEMP ALARM button

- This product allows programming of a **HIGH** and **LOW** temperature alarms for all three remote channels

D. MEM button

- Toggles between current, minimum, maximum readings of the indoor and remote temperature & humidity
- Clears the temperature and humidity memory

E. CHANNEL button

- Recalls a different remote sensor reading – 1, 2 or 3
- Activates the remote channels auto-scan feature

F. SET button

- Enables the temperature programming in Celsius or Fahrenheit

G. CLOCK SET button

- Enables clock's manual programming

H. DOWN (▼) BUTTON

- Decreases the parameters in **SET** Mode
- Activates the remote channels search
- Disables the Temperature Alarm of all three remote channels

I. ALARM KNOB

- Sets the clock's alarm time

J. BATTERY COMPARTMENT

- Accommodates 2 (two) UM-3 or AA 1.5V alkaline batteries

K. ALARM ON/OFF SWITCH

- Switches the clock alarm **ON** and **OFF**

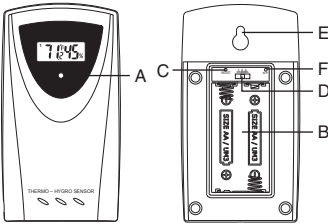
L. REMOVABLE TABLE STAND

- Keeps the unit in upright position

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REMOTE SENSOR FEATURES

- Remote temperature and humidity transmission to the main unit via 433 MHz signal
- Case can be wall mounted using built-in hanger
- Selection of the temperature display in Celsius or Fahrenheit
- Three Channel selection
- LCD displays temperature, humidity and channel



A. LED INDICATOR

- Flashes once when the remote sensor transmits a reading to the main unit.
- Flashes twice when battery power is low.

B. BATTERY COMPARTMENT

- Holds two AA-size batteries

C. RESET

- Resets all previous settings

D. CHANNEL SWITCH

- Selects the desired channel -1, 2 or 3

E. WALL-MOUNT RECESSED HOLE

- Keeps the remote sensor on the wall

F. °C / °F SWITCH

- Selects the temperature display in Celsius or Fahrenheit

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BEFORE YOU BEGIN

- We recommend using alkaline batteries for the remote sensor and main unit when temperatures are above 32°F (0°C). We recommend using lithium batteries for the remote sensor when temperatures are below 32°F (0°C).
- 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
- Press **RESET** after each battery change with a paper clip or similar tool.
- Remove protective plastic screen from LCD display (if any).
- During an initial setup, place the main unit close to the remote sensor.
- After reception is established (the remote temperature and humidity will appear on the main unit's display), position the remote sensor and the main unit within the effective transmission range of 200 feet (60 meters).
- The remote sensor can be placed **indoors or outdoors, depending on the area where the temperature and humidity are intended to be measured**. If you intend measuring outdoor elements, place remote sensor outdoors.
- The main unit must be placed indoors.

NOTE:

1. Avoid pressing any buttons on the main unit **before the remote readings are displayed**.
2. The effective operating range may be influenced by the surrounding building materials and how the receiver and transmitter are positioned.
3. Place the remote sensor so that it faces the main unit (receiver), minimizing obstructions such as doors, walls, and furniture.
4. Though the remote sensors are weather-resistant, they should be placed away from direct sunlight, rain or snow. The best suggested location for the remote sensor for outdoors is under the eave on the north side of the building.

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NOTE: When the temperature falls below freezing, the batteries in the outdoor remote sensor may have reduced voltage supply and a shorter effective range. We recommend using lithium batteries at temperatures of 32°F (0°C) and below.

BATTERY INSTALLATION

REMOTE SENSOR


NOTE: Install the batteries; select the channel and temperature in °C or °F before mounting the remote sensor.

- Remove the screws from the battery compartment with a small Phillips screwdriver.
- Set the channel. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
- Install 2 “AA” size alkaline batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Secure the remote sensor in the desired location.

MAIN UNIT

- Slide to the right the battery compartment door on the back of the unit and remove it.
- Install 2 batteries (UM-3 or “AA” size 1.5V) matching the polarity as shown in the battery compartment.
- Replace the battery compartment door.

LOW BATTERY WARNING

A low-battery indicator [] will appear next to the indoor or remote data reading line of the main unit warning that the corresponding batteries need replacement.

GETTING STARTED

DIGITAL WEATHER DISPLAY

After batteries are installed; remote sensor will transmit temperature and humidity data at 45 second intervals. The main unit may take up to two minutes to receive the initial readings. Upon successful reception, remote temperature and humidity will appear under the weather forecast section of the main unit's display (the default remote channel is channel one). The main unit will automatically update readings at 45-second intervals.

After communication between the main unit and remote sensor has been established, secure the remote sensor in the desired location.

If no signal is received from the remote sensor within two minutes, dashes [- -] will be displayed. Press and hold the **DOWN (▼)** button on the main unit for two seconds to initiate another signal search.

PLACEMENT OF THE UNITS



The main unit can be placed on any flat surface indoors. The remote sensor can be placed indoors or outdoors, on a flat surface or mounted on the wall.

REMOTE AND INDOOR TEMPERATURE & HUMIDITY

The remote temperature and humidity information line is located right below the weather forecast line of the main unit's display.

The wave icon is located above the remote channel number indicates the reception status from the corresponding remote sensor.


There are three following types of the reception status may be displayed:

The unit is in a searching mode.	
Temperature and humidity readings are securely registered.	
No signals detected.	- - -


The indoor temperature and humidity with the icon **IN** are located below the remote temperature and humidity information line.

NOTE: If the indoor or remote temperature or humidity goes above or below operating range stated in specifications, the main unit's display (weather station portion) will show dashes " - - - " on the corresponding line.

AUTO-SCANNING

Press and hold the **CHANNEL** button for 2 seconds – the icon "  " will appear on the main unit weather display above the **COMFORT LEVEL** indicator.

All three remote channels data will be displayed one-by-one automatically with a 4 seconds delay in the following sequence: Channel 1, Channel 2 and Channel 3.

To exit from scanning mode, press and hold the **CHANNEL** button for 2 seconds, and the icon "  " will disappear, returning the main unit weather display to the default display mode.

PROGRAMMABLE TEMPERATURE ALARM

This product allows manual programming of a **HIGH** and **LOW** temperature alarms for all three remote channels. Once the actual remote temperature will reach the pre-set high or low limits, the alarm will sound. The alarm can be set for temperature readings between -58 °F and 158°F.

To program the temperature alarm for all remote channels,

- Press the **TEMP ALARM** button once to enter into the Temperature Alarm Programming mode – the abbreviation "OF" will be displayed on the remote temperature line
- Press and hold **TEMP ALARM** button until the lower temperature limit value (-58) will flash
- Set the desired lower temperature limit using **DOWN (▼)** arrow button
- Press **TEMP ALARM** button once confirming the lower temperature limit value
- Press and hold **TEMP ALARM** button until the HIGH temperature limit value (158) will flash
- Set the desired higher temperature limit using **DOWN (▼)** arrow button
- Press **TEMP ALARM** button once confirming the higher temperature limit value






COMFORT LEVEL INDICATORS

This product is capable of detecting and displaying the current indoor comfort levels of surrounding environment. The comfort level is displayed on the weather station portion of the main unit's display. It is based on the combination of the current indoor temperature and humidity readings. There are following comfort levels may be displayed: **COMFORT** (comfortable); **WET** (wet) and **DRY** (dry)

Indicator displayed	Temperature Range	Humidity Range	Shows current condition
COMFORT	20°C to 25°C (68°F to 77°F)	40%RH-70%RH	Ideal for both relative humidity and temperature
WET	-5°C to 50°C (23°F to 122°F)	OVER 70%RH	Contains excess moisture
DRY	-5°C to 50°C (23°F to 122°F)	Below 40%RH	Contains inadequate moisture

WEATHER FORECAST

This unit is capable of detecting the atmospheric pressure changes. Based on collected weather data, it forecasts the weather for the next 12 to 24 hours.

When the display shows...					
Forecast is...	Sunny	Partly Cloudy	Cloudy	Rainy	Snowy

NOTE: The weather forecast accuracy is approximately 70%. The main unit display shows forecasted, not current conditions. The **SUNNY** icon indicates clear weather, even when displayed during the night-time.

MAXIMUM AND MINIMUM READINGS

The maximum and minimum record of the indoor and remote temperature and humidity will be automatically stored in the memory of the main unit (receiver). To display the minimum, maximum or the current reading press **MEM** button. If no button is pressed for the next 15 seconds, the unit will return to the current temperature and humidity display. To clear the memory, press and hold **MEM** button for two seconds and all previously stored readings will be erased.

LOST COMMUNICATION

If the main unit display line for the remote sensor reading goes blank, press and hold **DOWN** (▼) button for 2 seconds to begin a new signal search. If the signal still isn't received, please make sure that:

- The remote sensor is in its proper location.
- The distance between main unit and remote sensor(s) is not over 200 feet (60meters).
- The path between units is clear of obstacles. Shorten the distance if necessary.
- Fresh batteries are installed correctly in both remote sensor and main unit.

If there is no reception, please perform the following steps:

- Bring the main unit and remote sensor close together.
- Remove four (4) small screws from the back of the remote sensor with small Phillips screwdriver, and open the battery compartment.
- Remove the batteries from the battery compartment and reinstall them in the same manner. Remote sensor LED indicator will flash showing transmission of the signal.
- Remove the batteries from the main unit and reinstall them in the same manner.
- On the main unit select the same channel number using **CHANNEL** button as set on the remote sensor. The remote temperature and humidity appeared on the main unit's display will show that transmission is being received successfully.

TRANSMISSION COLLISION

Signals from the other household devices such as wireless doorbells, home security systems, and entry control, may interfere with this product or cause temporary reception interruption. This is normal and will not affect the general performance of the product. The transmission and reception of the temperature and humidity readings will resume once the interference subsides.

ANALOG CLOCK DISPLAY

Immediately after the battery installation, the clock's hour and minutes "hands" will start moving and stop at 4:00, 8:00 or 12:00 position.

- To program the desired time,
- Press and hold the **CLOCK SET** button, located inside the battery compartment – the **MINUTE** and **HOURL** hands will start moving clockwise
 - Release the **CLOCK SET** button, once the **MINUTE** and **HOURL** hands have reached the desired time position. Immediately after releasing the **CLOCK SET** button, the **SECONDS** hand will start moving, confirming that clock is started.

ALARM

- To set the time alarm,
- Turn the **ALARM** knob, moving the **ALARM** hand (smallest from three) to the desired alarm time
 - Release the **ALARM** knob
 - Slide **ON/OFF** switch to the **ON** position

DISABLING THE ALARM

Slide the **ON/OFF** switch on the main unit to the **OFF** position disabling the clock's alarm.

SNOOZE

When the time alarm sounds, press the **SNOOZE/LIGHT** button to temporarily stop it. After the **SNOOZE/LIGHT** is depressed, the time alarm sound will resume in four minutes. If the alarm is not disabled after that, it will sound for two more minutes and then will stop by itself.

BACKLIGHT

The backlight feature is enabled only after the time is set. To activate the backlight press the **SNOOZE/LIGHT** button once, and both – clock and weather station displays - will light up for five seconds.

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.

TROUBLESHOOTING

Check here before contacting customer service.

Issue	Symptom	Solution
Temperature or Humidity	Displays "LL" or "HH"	Temperature or humidity out of range
Remote sensor	Cannot locate remote sensor	Check batteries
		Check location
	Cannot change the channel	Press "RESET" after setting the channel
	Cannot change the °C to °F and back	Press "RESET" after setting °C/°F
	Data does not match data on the main unit	Initiate manual sensor search

SPECIFICATIONS

Main Unit

Indoor Temperature

Proposed operating range : -5.0°C to +50.0°C/
23.0°F to 122.0°F

Temperature resolution : 0.1°C/0.2°F

Indoor Humidity

Proposed operating range : 25%RH to 90%RH

Humidity resolution : 1%

Comfort level indicators – **COMFORT**, **WET** and **DRY**

User-selectable (°F or °C) temperature display

Weather Forecast in five large graphic icons : Sunny, Partly Cloudy, Cloudy, Rainy and Snowy

Remote channels auto-scan feature

Maximum number of remote sensors : 3 (one included)

Readings update interval : every 45 seconds

EL backlight for the weather station ; **Bulb** backlight for analog clock

Low battery indicators – for each remote channel and main unit

Clock

Precise Quartz Time

Crescendo 2 minutes alarm with 4 minutes snooze

Remote Sensor

Remote Temperature

Proposed operating range with alkaline batteries : -20.0°C to +70.0°C/
-4.0°F to +158°F

Proposed operating range with lithium batteries : -38.8°C to +70.0°C/
-38.0°F to +158°F

Temperature resolution : 0.1°C/0.2°F

RF Transmission Frequency : 433 MHz

RF range: Maximum 200 feet (60 meters)

Temperature & humidity transmission cycle : approximately 45 seconds

Low battery indicator

Wall-mount of Table stand

Power

Main unit : 2 AA size (UM-3) 1.5V batteries (not included)

Remote Sensor : 2 AA size (UM-3) 1.5V batteries (not included)

Dimensions

Main unit : 3.32(L) x 6.97(H) x 1.49(D) inches

Remote sensor : 2.37(L) x 4(H) x 1(D) inch

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

Manufacturer: Hideki Electronics Ltd.

Address: Unit 2304-06, 23/F Riley House, 88 Lei Muk Road, Kwai Chung, New Territories, Hong Kong

declare that the product

Product No.: TC682EL

Product Name: Honeywell Wireless Digital Weather Station with Analog Clock 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.

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.

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All Rights Reserved. The Honeywell Trademark is used under license from Honeywell Intellectual Properties Inc. Honeywell International Inc. makes no representations or warranties with respect to this product.
All user manual contents and information are subject to change.

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