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› Wireless Weather Station Indoor Outdoor RCC Thermometer with 3 External Sensor, Color Display Digital Weather Forecast Station with Adjustable Backlight and Atomic Clock, 20C (Black) - User Manual

Protmex 20C Weather Station with 3 Remote Sensor

Protmex Wireless Weather Station User Manual

Model: 20C Weather Station with 3 Remote Sensor

1. INTRODUCTION

Thank you for choosing the Protmex Wireless Weather Station. This device provides accurate indoor and outdoor temperature and humidity readings, along with weather forecasts, an atomic clock, and adjustable backlight. This manual will guide you through the setup, operation, and maintenance of your new weather station to ensure optimal performance.

2. WHAT'S INCLUDED

Upon unboxing your Protmex Wireless Weather Station, please verify that all components listed below are present and in good condition:

- 1 x Main Display Unit
- 3 x Wireless Remote Sensors
- 1 x Power Adapter
- 1 x User Manual

PROTMEX

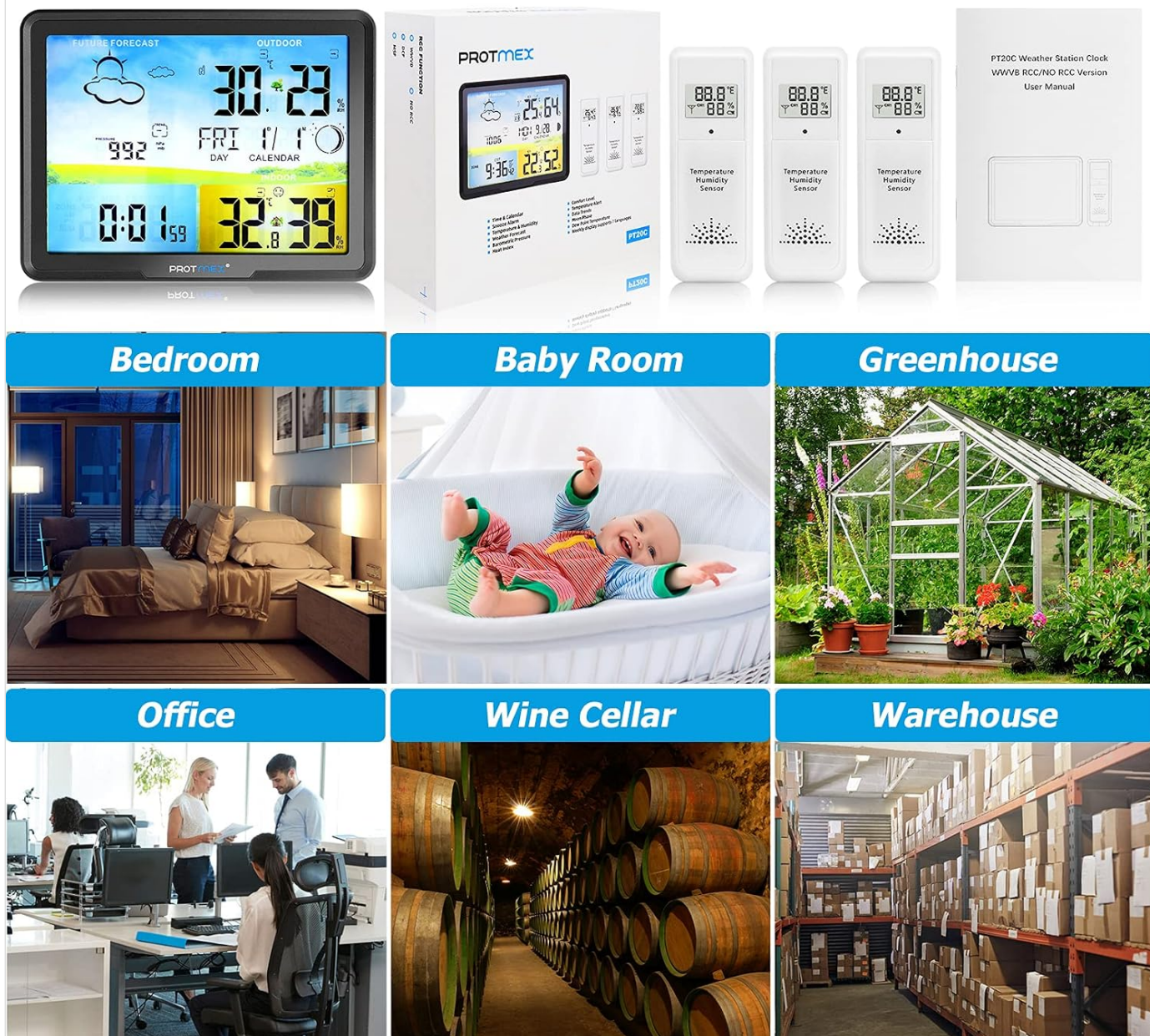


Image: All components included in the Protmex Wireless Weather Station package.

Video: An unboxing demonstration of the Protmex Wireless Weather Station, showing the main unit, remote sensors, and accessories.

3. PRODUCT FEATURES

The Protmex Wireless Weather Station is equipped with a range of features to provide comprehensive environmental monitoring:

- **Color Display:** Easy-to-read screen with vibrant colors for clear data visualization.
- **Atomic Clock (RCC):** Automatically synchronizes time for accuracy.
- **Adjustable Backlight:** Multiple brightness levels for comfortable viewing in various lighting conditions.
- **3 External Sensors:** Monitor temperature and humidity in up to three different locations.
- **Weather Forecast:** Displays future weather trends based on barometric pressure changes.
- **Air Pressure:** Provides current barometric pressure readings.
- **Humidity Monitoring:** Tracks indoor and outdoor humidity levels.

- **Alarm & Snooze:** Integrated alarm clock function with snooze option.
- **Temperature & Humidity Trend:** Indicates rising, falling, or stable trends.
- **Moon Phase:** Displays the current moon phase.

29- IN-1 WIRELESS WEATHER STATION MONITORS



Image: Overview of the 29-in-1 monitoring capabilities of the weather station.

INDOOR AND OUTDOOR WEATHER STATION

Come with 3 sensors
Distance up to 260ft/80m



Temperature



Humidity



Weather Station



Alarm Clock



Comfort Emoji



Barometric
Pressure



Thermometer
Alarm



Moon Phase

Image: Visual representation of the key functions and data points displayed by the weather station.

4. SETUP GUIDE

4.1 Powering the Main Unit

The main display unit can be powered by the included power adapter for continuous backlight or by 3 AAA batteries (not included) for portable use with a temporary backlight.

- **Using Power Adapter:** Connect the power adapter to the DC 5V socket on the back of the main unit and plug it into a wall outlet.
- **Using Batteries:** Open the battery compartment on the back of the main unit and insert 3 AAA batteries, observing polarity. The backlight will illuminate for 15 seconds when powered by batteries.

TWO WAYS POWER SUPPLY



- **Power Supply**
- **3*AAA (Not Included)**



- **2*AAA (Not Included)**



Image: Power supply options for the main weather station unit.

4.2 Sensor Setup and Channel Selection

Each remote sensor requires 2 AAA batteries (not included). Before inserting batteries, you must select a unique channel (1, 2, or 3) for each sensor using the small switch inside the battery compartment. This is crucial for the main unit to distinguish between multiple sensors.

1. Open the battery compartment of a remote sensor.
2. Locate the small switch labeled 1, 2, 3.
3. Set the switch to your desired channel (e.g., Channel 1 for the first sensor).
4. Insert 2 AAA batteries, observing polarity.
5. Repeat for other sensors, assigning unique channels (Channel 2, Channel 3).

FUNCTIONAL OVERVIEW

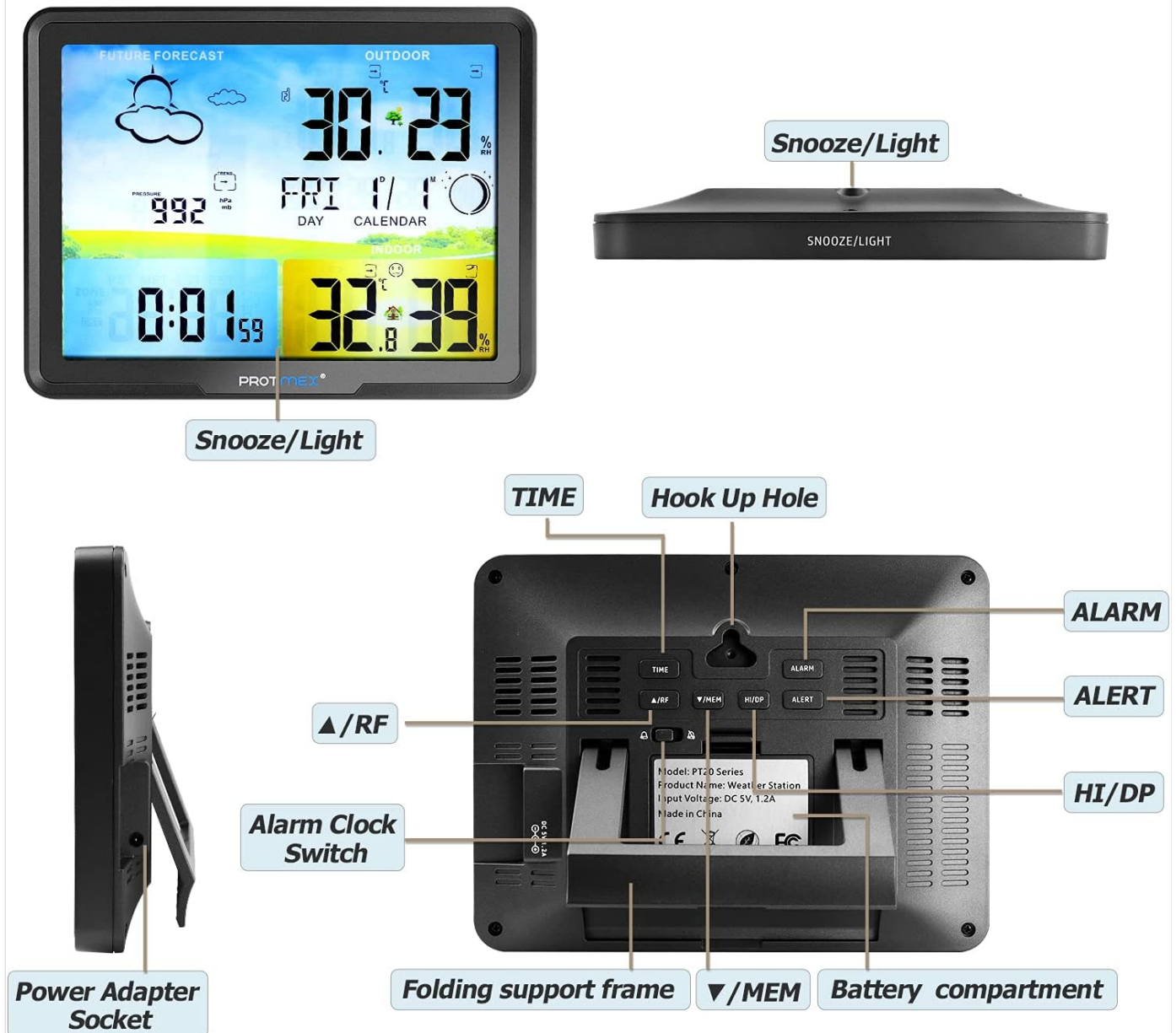


Image: Functional overview of the main unit and remote sensor, highlighting the battery compartment and channel switch on the sensor.



Image: Close-up of the remote sensor's internal channel switch (1, 2, 3) for assigning unique IDs.

Video: Important notice regarding the remote sensor setup, specifically demonstrating the channel selection switch inside the battery

compartment.

4.3 Pairing Sensors with Main Unit

Once batteries are installed and channels are set for all sensors, place them within range of the main unit. The main unit will automatically search for and connect to the sensors. This process may take a few minutes. Ensure the sensors are not too far from the main unit during initial pairing.

4.4 Placement Recommendations

- **Main Unit:** Place indoors on a flat surface or mount on a wall. Avoid direct sunlight or heat sources.
- **Remote Sensors:** Place outdoors in a shaded, dry location, protected from direct rain and sunlight for accurate readings. Ensure they are within the 260ft/80m wireless range.

260FT/80M WEATHER STATION WITH 3 REMOTE SENSOR

Up to 3 Channel Display for Different Places

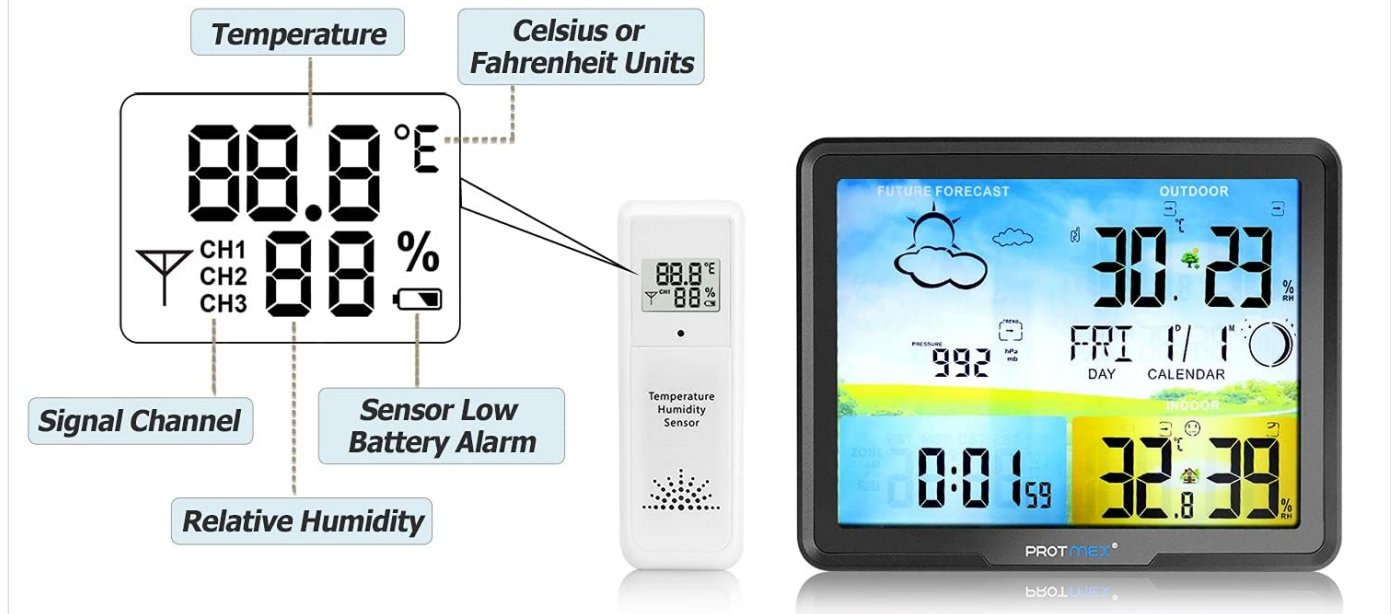


Image: Illustration of the wireless range and multi-channel capability of the weather station with remote sensors.

5. OPERATING INSTRUCTIONS

5.1 Display Overview

The color display is divided into several sections:

- **Top Left:** Weather forecast icons (sunny, cloudy, rainy, etc.) and barometric pressure.
- **Top Right:** Outdoor temperature and humidity, along with the current day and calendar.
- **Bottom Left:** Atomic clock time and time zone.
- **Bottom Right:** Indoor temperature and humidity.



Image: Main display unit showing various weather data and time.

5.2 Time and Date Setting

The weather station features an Atomic Clock (RCC) function, which automatically synchronizes the time and date.

Ensure the unit is placed in an area where it can receive the RCC signal. If manual adjustment is needed, refer to the specific buttons on the back of the unit (e.g., 'TIME' button) as indicated in the functional overview image.

5.3 Backlight Adjustment

When powered by the adapter, the backlight can be adjusted. Use the 'Snooze/Light' button on the top of the unit to cycle through high, medium, low, and off brightness settings.

5.4 Temperature Units (°C/°F)

To switch between Celsius (°C) and Fahrenheit (°F), locate the °C/°F button on the main unit (often on the back or side) and press it to toggle the display unit.

5.5 Channel Cycling

The main unit can display data from up to three remote sensors. Press the '▼/RF' button (or similar, refer to functional overview) to manually cycle through the readings from Channel 1, Channel 2, and Channel 3. The unit may also automatically cycle through channels if configured.

5.6 Alarm Function

To set the alarm, press the 'ALARM' button. Use the adjustment buttons (e.g., '▲' and '▼') to set the desired alarm time. Press 'ALARM' again to confirm. To activate the snooze function when the alarm sounds, press the 'Snooze/Light' button.

6. MAINTENANCE

- **Battery Replacement:** Replace batteries in both the main unit and remote sensors when the low battery indicator appears on the display. Always replace all batteries in a set at the same time.
- **Cleaning:** Wipe the display and unit surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Environmental Considerations:** Avoid exposing the main unit to extreme temperatures, direct sunlight, or high humidity. Ensure remote sensors are protected from direct weather elements.

7. TROUBLESHOOTING

- **No Sensor Data Displayed:**
 - Ensure batteries are correctly installed in both the main unit and sensors.
 - Verify that each remote sensor is set to a unique channel (1, 2, or 3) using the switch inside its battery compartment.
 - Bring sensors closer to the main unit to re-establish connection.
 - Press and hold the '▼/RF' button on the main unit to initiate a manual search for sensors.
- **Inaccurate Temperature/Humidity Readings:**
 - Ensure sensors are placed in appropriate locations, away from direct sunlight, heat sources, or extreme moisture.
 - Allow time for readings to stabilize after initial setup or relocation.
 - Check battery levels; low batteries can affect accuracy.

- **Display is Dim or Off:**

- If using batteries, the backlight is temporary. Connect the power adapter for continuous illumination.
- Adjust backlight brightness using the 'Snooze/Light' button.

- **Atomic Clock Not Syncing:**

- Place the main unit near a window or in an open area to improve signal reception.
- Avoid placing near electronic devices that may cause interference.
- Allow up to 24 hours for initial synchronization.

8. SPECIFICATIONS

Feature	Specification
Brand	Protmex
Model Number	20C Weather Station with 3 Remote Sensor
Power Source (Main Unit)	Battery Powered (3 AAA batteries required) or DC 5V Power Adapter
Power Source (Sensors)	Battery Powered (2 AAA batteries required per sensor)
Color	Black
Display Type	Color Display
Sensor Technology	Wireless
Product Dimensions	9.8 x 2.6 x 8.8 inches
Item Weight	1.76 pounds
UPC	751105231508

9. WARRANTY AND SUPPORT

Protmex products are designed for reliability and performance. For warranty information, technical support, or any questions regarding your weather station, please contact Protmex customer service directly. You can often find contact details on the product packaging or on the official Protmex website.

Visit the [Protmex Store on Amazon](#) for more information and support resources.

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Model number, symptoms, what you tried, or the section of the manual you are using.

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