

ThermoPro TP280

ThermoPro TP280 Home Weather Station User Manual

Model: TP280 | Brand: ThermoPro

1. INTRODUCTION

The ThermoPro TP280 is an advanced wireless weather station designed to provide comprehensive indoor and outdoor environmental monitoring. With its market-leading 1,000-foot remote range and highly accurate Swiss-made sensor, it offers precise temperature and humidity readings, along with dependable 24-hour weather forecasts. Its user-friendly 7-inch adjustable brightness display ensures clear readability in any light condition, making it an essential tool for planning your day with confidence.



Figure 1: ThermoPro TP280 Main Display Unit and Outdoor Sensor

2. WHAT'S IN THE BOX

- Main Display Unit (1)
- Outdoor Remote Sensor (1)

- AAA Batteries (5 for main unit, 3 for sensor)
- Type-C Charging Cable (1)
- User Manual (1)



Main Display Unit with 5 AAA batteries



Outdoor Remote Sensor

3. SETUP

1. **Powering the Main Unit:** Open the battery compartment on the back of the main display unit. Insert 5 AAA batteries, ensuring correct polarity (+/-). Alternatively, connect the unit using the provided Type-C charging cable for continuous power.
2. **Powering the Outdoor Sensor:** Open the battery compartment on the back of the outdoor remote sensor. Insert 3 AAA batteries, ensuring correct polarity.
3. **Sensor Placement:** For accurate readings, place the outdoor sensor in a shaded, dry location, away from direct sunlight, rain, and any heat sources. A covered porch or eave is ideal. The sensor is weatherproof but prolonged direct exposure to harsh elements can affect its lifespan and accuracy.
4. **Automatic Pairing:** The main display unit and outdoor sensor should automatically pair once both are powered on. The outdoor temperature and humidity readings will appear on the main display. If pairing does not occur, refer to the troubleshooting section or the full user manual for manual pairing instructions.

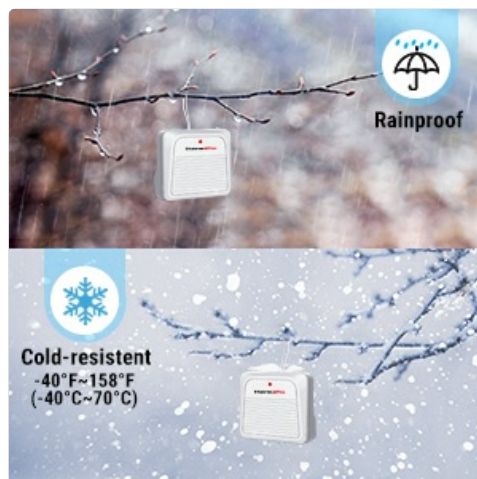


Figure 2: Outdoor sensor designed for various weather conditions

4. OPERATING INSTRUCTIONS

The ThermoPro TP280 features a clear, colorful display that provides all essential weather information at a glance.

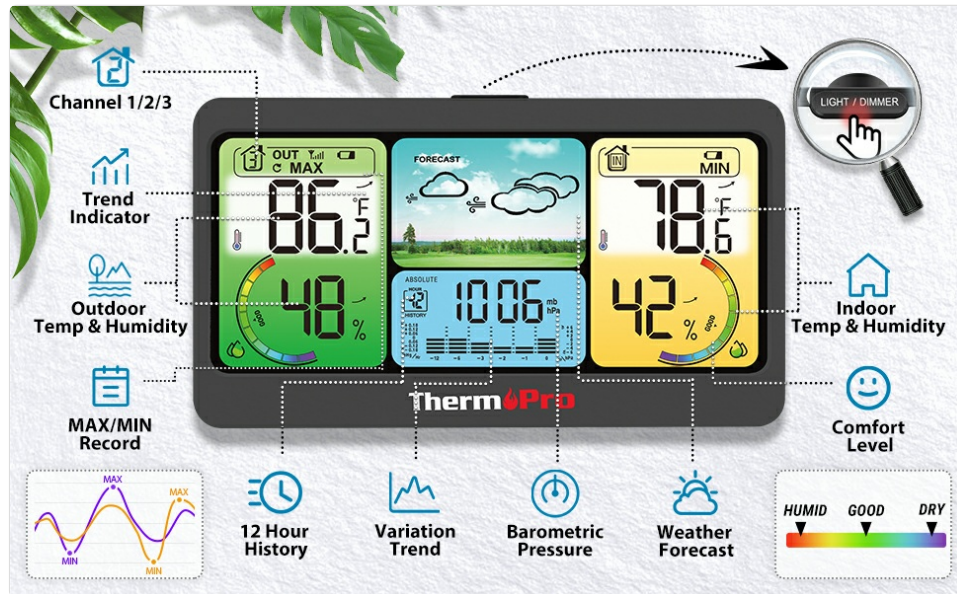


Figure 3: Main Display Unit Overview

Display Overview:

- **Outdoor Temperature & Humidity:** Displays current outdoor conditions, including MAX/MIN records and trend indicators.
- **Weather Forecast:** Provides a 24-hour forecast with 6 different weather icons (sunny, partially cloudy, cloudy, rainy, thunderstorms, snow).
- **Barometric Pressure:** Shows current atmospheric pressure in absolute or relative mode, with a 12-hour history graph.
- **Indoor Temperature & Humidity:** Displays current indoor conditions, including MAX/MIN records and comfort indicators.

Key Functions:

- **Adjusting Brightness:** Use the 'LIGHT/DIMMER' button located on the top of the main unit to cycle through 4 brightness options (100%, 80%, 50%, 20%). If powered by batteries only, the backlight will shut off after 15 seconds to conserve power.
- **Switching Temperature Units (°C/°F):** Press the '°C/°F' button on the back of the main unit to switch between Celsius and Fahrenheit.
- **Viewing MAX/MIN Records:** Press the 'MAX/MIN' button on the back to view the highest and lowest temperature/humidity readings recorded since the last reset.
- **Viewing History:** Press the 'HISTORY' button on the back to review the 12-hour barometric pressure history.
- **Channel Selection:** If using multiple outdoor sensors (up to 3 supported), use the 'CH' button on the back to cycle through the sensor channels or enable auto-cycle mode.



Figure 4: Adjustable Backlight Levels

5. FEATURES

- **Longest 1000FT Range on the Market:** This weather station offers a market-leading remote range of 1,000 feet, allowing you to monitor indoor/outdoor temperature and humidity from virtually anywhere in your home. It supports up to 3 remote sensors simultaneously.

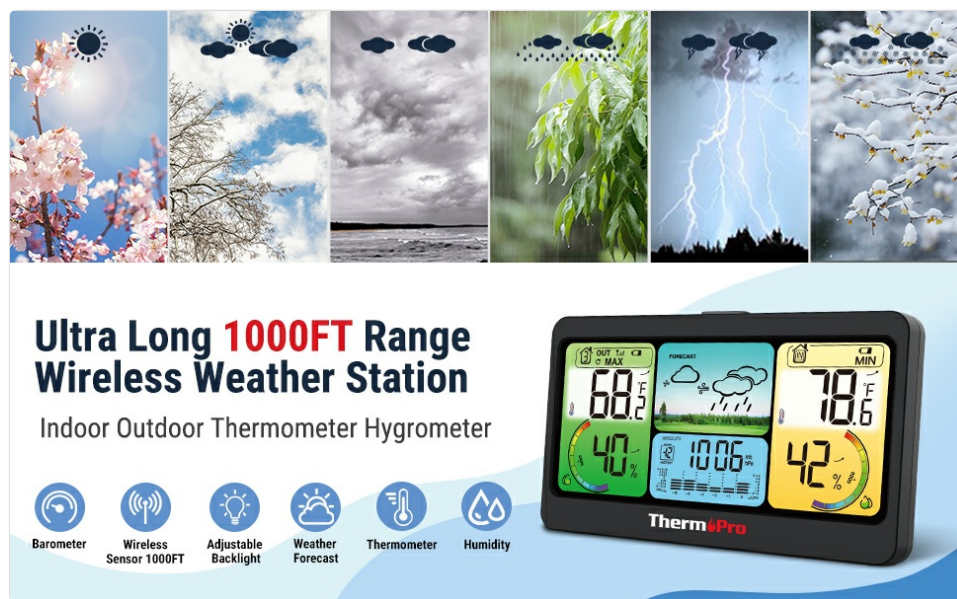


Figure 5: Extended Wireless Range and Multi-Location Monitoring

- **Highly Accurate Swiss-Made Sensirion Sensor:** Equipped with a world-leading Swiss sensor, this weather station provides exceptional accuracy: $\pm 0.5^{\circ}\text{F}$ for temperature, $\pm 2\%$ RH for humidity, and $\pm 0.059\text{inHg}$ ($\pm 2\text{mba}$) for barometric pressure. The weatherproof transmitter is designed to work reliably in temperatures as low as -4°F .

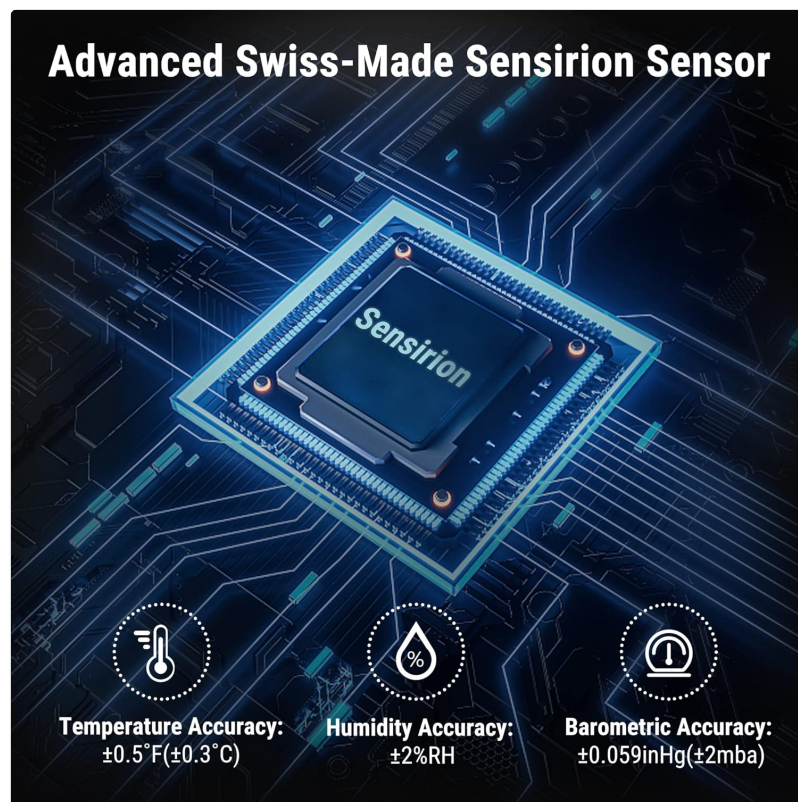


Figure 6: Swiss Sensor Accuracy

- **Dependable Forecasts with Multi-Format Barometer:** Features absolute and relative air pressure modes, along with a 12-hour history graph. This allows the weather station to precisely predict 24-hour weather forecasts, including sunny, partially cloudy, cloudy, rainy, thunderstorms, and snow.

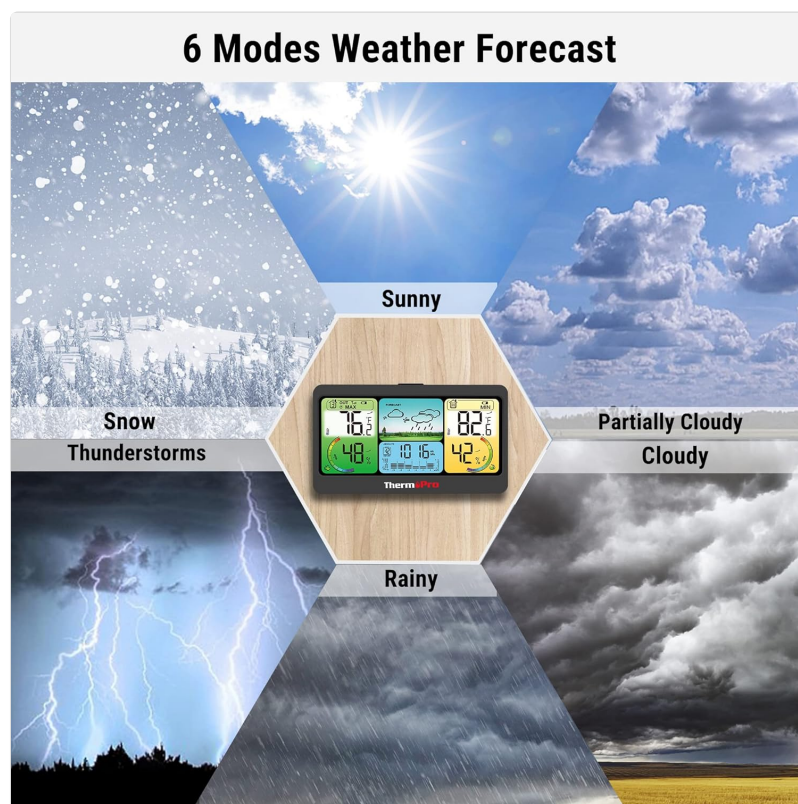


Figure 7: 6 Modes Weather Forecast

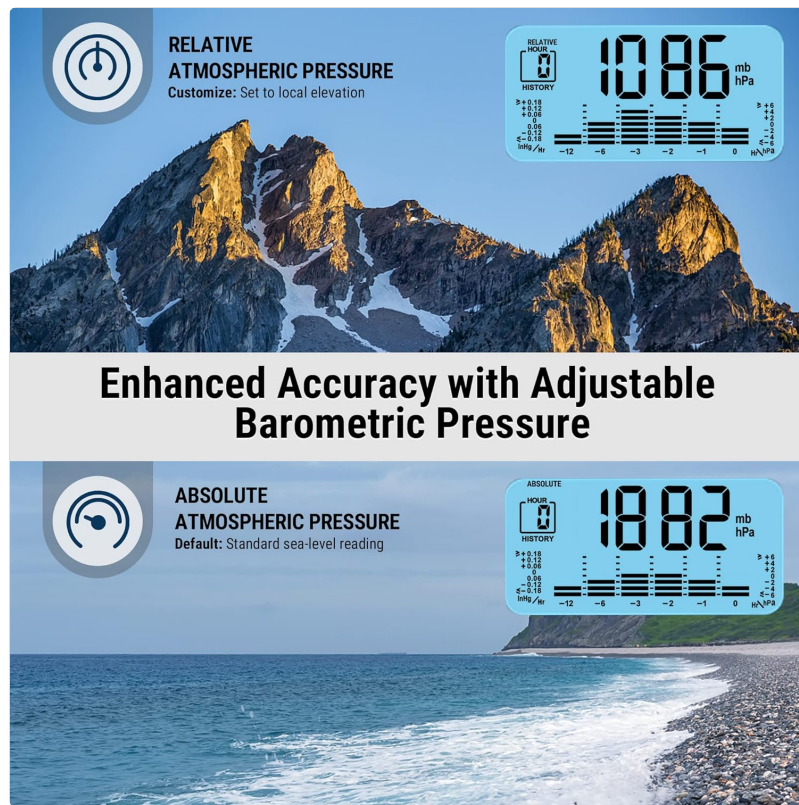


Figure 8: Adjustable Barometric Pressure

- **7" Adjustable Brightness Display:** The large 7-inch display offers 4 brightness options, providing clear readings of high/low indicators, trend arrows, and comfort indicators from any viewing angle or in any light condition.
- **Dual Power Supply:** The main unit can be powered by either 5 AAA batteries (included) for portability and continued use during power outages, or by a Type-C charger (cable included) for continuous backlight and operation.

6. MAINTENANCE

- **Cleaning:** Wipe the main unit and sensor with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries in both units when the low battery indicator appears on the display. Ensure to use fresh batteries of the correct type (AAA).
- **Sensor Care:** Periodically check the outdoor sensor's placement to ensure it remains protected from direct sunlight, heavy rain, and extreme temperatures outside its operating range.

7. TROUBLESHOOTING

- **No Display/Power:** Ensure batteries are correctly inserted and not depleted. If using the Type-C cable, verify the connection and power source.
- **No Outdoor Reading:** Check if the outdoor sensor is within the 1,000-foot range. Ensure the sensor's batteries are not depleted. Try re-pairing the units by following the instructions in the full user manual.
- **Inaccurate Readings:** Verify the outdoor sensor's placement. It should be in a shaded area, away from direct heat sources (e.g., walls, windows, appliances) or direct cold sources (e.g., air conditioning vents).
- **Forecast Inaccuracy:** The weather station requires approximately 24 hours to learn local barometric pressure patterns for accurate forecasting. Allow sufficient time for the device to calibrate.

For more detailed troubleshooting steps, please refer to the complete user manual.

8. SPECIFICATIONS

Feature	Specification
Brand	ThermoPro
Model Number	TP280
Power Source	Battery Powered (5 AAA included for main unit, 3 AAA included for sensor) / Type-C Charger
Temperature Accuracy	+/-0.5°F (±0.3°C)
Humidity Accuracy	+/-2% RH
Barometric Accuracy	+/-0.059inHg (±2mba)
Wireless Range	Up to 1000 feet (300 meters)
Display Type	LCD with Adjustable Backlight
Product Dimensions	0.98"D x 7.09"W x 3.98"H
Material	Plastic

9. OFFICIAL PRODUCT VIDEO

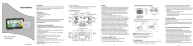
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Video 1: ThermoPro TP280B 1000 Feet Weather Station Wireless Indoor Outdoor Thermometer. This video provides a visual overview of the product's features and functionality, including its display, sensor, and power options.

10. WARRANTY & SUPPORT

For detailed warranty information and customer support, please refer to the official user manual provided with your product or visit the ThermoPro website.
You can also access the User Manual (PDF) online:[ThermoPro TP280 User Manual](#)

Related Documents - TP280

	<p>ThermoPro TP280B Wireless Weather Station: Instruction Manual & Features</p> <p>Discover the features and operation of the ThermoPro TP280B Wireless Weather Station with this comprehensive instruction manual. Learn about its weather forecasting, barometric pressure monitoring, indoor/outdoor temperature and humidity readings, and setup guide.</p>
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	<p>ThermoPro TP-67 Wireless Weather Station Instruction Manual</p> <p>Comprehensive instruction manual for the ThermoPro TP-67 Wireless Weather Station, covering setup, features, operation, troubleshooting, and specifications.</p>
	<p>ThermoPro TP-60 Wireless Indoor/Outdoor Humidity and Temperature Monitor Instruction Manual</p> <p>Comprehensive instruction manual for the ThermoPro TP-60 wireless indoor/outdoor humidity and temperature monitor, covering setup, features, specifications, and troubleshooting.</p>
	<p>ThermoPro TP63B Wireless Indoor/Outdoor Humidity & Temperature Monitor Instruction Manual</p> <p>Comprehensive instruction manual for the ThermoPro TP63B wireless indoor/outdoor humidity and temperature monitor, covering features, setup, operation, troubleshooting, and specifications.</p>
	<p>ThermoPro TP65 Wireless Indoor/Outdoor Humidity and Temperature Monitor User Manual</p> <p>Comprehensive user manual for the ThermoPro TP65 wireless indoor/outdoor humidity and temperature monitor. Learn about setup, features, troubleshooting, specifications, and warranty.</p>
	<p>ThermoPro TP922 Digital Food Thermometer User Manual</p> <p>Comprehensive user manual for the ThermoPro TP922 digital food thermometer, covering setup, operation, features, specifications, and troubleshooting for accurate cooking temperatures.</p>