Protmex PT618

Protmex PT618 Digital Temperature and Humidity Meter

USER MANUAL

1. Introduction

The Protmex PT618 is a versatile digital instrument designed for precise measurement of environmental conditions. It combines the functions of a humidity meter, temperature meter, wet bulb temperature, and dew point temperature, making it suitable for various indoor and outdoor applications. This manual provides essential information for the proper setup, operation, and maintenance of your device.

2. Package Contents

Upon opening the package, please verify that all items listed below are present and in good condition:

- 1 x Protmex PT618 Temperature & Humidity Meter
- 3 x AAA Batteries
- 1 x Packing Bag
- 1 x User Manual

Figure 2.1: The Protmex PT618 meter, illustrating its dimensions, sensor, display, control buttons, and the battery compartment on the back. The image also shows the placement of three AAA batteries.

3. Setup

3.1. Battery Installation

The Protmex PT618 requires three AAA batteries for operation. These are typically included in the package.

1. Locate the battery compartment on the back of the device.
2. Open the battery cover.
3. Insert three AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely.

3.2. Initial Power-On

After installing the batteries, press the power button (usually marked with a circle and a vertical line) to turn on the device. The LCD display will illuminate and show initial readings.

4. Operating Instructions

The PT618 offers multiple measurement modes and functions for comprehensive environmental analysis.

Figure 4.1: Front view of the Protmex PT618 Digital Temperature and Humidity Meter.

4.1. Power On/Off

- Press the **Power** button (▦) to turn the device ON or OFF.
- The device features an automatic shutdown function after 30 minutes of inactivity to conserve battery life.

4.2. Measurement Modes

The device displays various environmental parameters simultaneously. Use the **DP/WB** button to cycle through different display modes:

- **Ambient Temperature & Relative Humidity:** Default display.
- **Dew Point Temperature (DP):** The temperature at which air becomes saturated with water vapor.

- **Wet Bulb Temperature (WB):** The lowest temperature that can be reached by evaporating water into the air.

Figure 4.2: The PT618 displaying Ambient Temperature, Humidity, Wet Bulb, and Dew Point measurements.

4.3. Unit Conversion (°C/°F)

Press the **C/F** button to switch between Celsius (°C) and Fahrenheit (°F) temperature units.

4.4. Data Hold (H)

Press the **H** button to freeze the current readings on the display. Press it again to release the hold function and resume live measurements.

4.5. Minimum/Maximum/Average (MIN/MAX/AVG)

Press the **MIN/MAX** button to view the minimum, maximum, and average recorded values for temperature and humidity during a measurement session. Cycle through these values by repeatedly pressing the button.

Figure 4.3: The PT618 showing recorded Maximum, Minimum, and Average values.

4.6. Backlight

Press the **Backlight** button (usually marked with a lightbulb icon) to turn the LCD backlight ON or OFF, improving visibility in low-light conditions.

4.7. Data Record and View (REC/MEM READ)

The device supports data recording and storage for up to 99 data points.

- Press the **REC** button to save the current readings.
- Press the **MEM READ** button to review stored data. Use the arrow buttons to navigate through the recorded entries.

Figure 4.4: Data Save & View function, allowing users to store and recall up to 99 data points.

4.8. Official Product Video

Video 4.1: An official product video from PROTMEX INC demonstrating the features and operation of the Protmex humidity meter. This video provides a visual guide to using the device's various functions.

5. Maintenance

5.1. Cleaning

To ensure accurate readings and prolong the life of your device, keep it clean. Wipe the casing with a soft, dry cloth. Do not use abrasive cleaners or solvents. Keep the sensor area free from dust and debris.

5.2. Storage

When not in use for extended periods, remove the batteries to prevent leakage. Store the device in its packing bag in a cool, dry place away from direct sunlight and extreme temperatures.

6. Troubleshooting

If you encounter issues with your Protmex PT618, consider the following common solutions:

- **No Display/Device Not Turning On:** Check if the batteries are correctly installed and have sufficient charge. Replace batteries if necessary.
- **Inaccurate Readings:** Ensure the sensor area is clean and unobstructed. Allow the device to stabilize in the measurement environment for a few minutes. Avoid placing the device near heat sources, direct sunlight, or strong air currents.
- **Low Battery Indicator:** Replace the batteries promptly to ensure continuous and accurate operation.
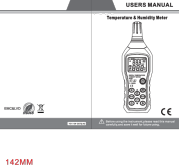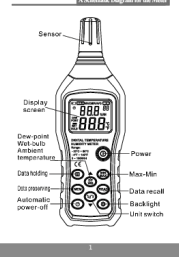
For further assistance, please refer to the contact information provided by the manufacturer.

7. Specifications

Feature	Detail
Model Number	PT618 (PPT-MS6508)
Humidity Range	0% - 100%RH
Temperature Range	-20°C (-4°F) - 60°C (140°F)
Dew Point Temperature Range	-50°C (-58°F) - 60°C (140°F)
Wet Bulb Temperature Range	-20°C (-4°F) - 60°C (140°F)
Operating Humidity	0.0% ~ 99.9%RH
Upper Temperature Rating	140 Degrees Fahrenheit
Batteries	3 AAA batteries required (included)
Battery Description	Alkaline
Mounting Type	Tabletop
Package Dimensions	8.9 x 4.69 x 1.85 inches; 9.59 ounces

8. Warranty and Support

Protmex is committed to providing quality products and customer satisfaction. For any warranty claims, technical support, or inquiries regarding your PT618 meter, please refer to the contact information provided in your product packaging or visit the official Protmex website.

Related Documents - PT618

	[Protmex HT607 Temperature & Humidity Meter User Manual](#) Comprehensive user manual for the Protmex HT607 Temperature & Humidity Meter, detailing its features, operation, specifications, and maintenance. Learn how to measure ambient temperature, humidity, dew point, and wet bulb temperature with this high-precision digital hygrometer.
	[Protmex PM6508 Digital Temperature & Humidity Meter User Manual - Environmental Monitoring](#) Comprehensive user manual for the Protmex PM6508 digital temperature and humidity meter. This guide details operation, features, and specifications for measuring ambient, dew point, and wet bulb temperatures, including MIN/MAX recording, data hold, and data storage. Ideal for indoor/outdoor environmental monitoring.
	[Protmex PT6508 Digital Temperature Humidity Meter User Manual](#) Comprehensive user manual for the Protmex PT6508 Digital Temperature Humidity Meter, covering operation, display screen, maintenance, and technical specifications for measuring ambient temperature, dew point, and wet bulb.
	[PT20C Weather Station Clock User Manual](#) User manual for the Protmex PT20C Weather Station Clock, covering features, operation, settings, specifications, and troubleshooting for both WWVB RCC and NO RCC versions.
	[PT20C Weather Station Clock User Manual](#) User manual for the Protmex PT20C Weather Station Clock, detailing its features, setup, operation, and functions including temperature, humidity, air pressure, weather forecast, and alarm settings. Covers RCC and WWVB versions.
	[Protmex PT6708 Digital Sound Level Meter Calibration Guide](#) Step-by-step instructions for calibrating the Protmex PT6708 Digital Sound Level Meter, including entering debugging mode and performing A/C weighted measurements.