

THERMOMETER VERATHERM VT-4

Precision Multi-Channel Thermometer

- Accuracy of 0.1°C
- 4 Probe inputs
- Simultaneous reading and recording of all channels in use
- NIST Traceable accuracy
- Advanced Connectivity USB-C and Bluetooth® with companion mobile app
- Resolution of 0.01°C



Physitemp VeraTherm®T-4 Precision Thermometer and probes

Introducing the VeraTherm VT-4, the new generation of precision thermometers from Physitemp, the trusted name in accurate temperature measurement for over 55 years. This modern, professional-grade instrument is engineered for accurate laboratory, research, and industrial applications. It combines a rugged, precision-milled aluminum chassis with an intuitive 5-inch touch interface and advanced data-logging capabilities. With its ability to monitor four channels simultaneously, the VT-4 provides the accuracy and fast response times often needed for critical temperature measurements.

Key Features and Benefits

Unmatched Physitemp Accuracy
Leverage the renowned Physitemp accuracy of $\pm 0.1^\circ\text{C}$ in the physiology range (0-50°C), essential for scientific and medical research where NIST traceable and reproducible results are paramount. The VT-4, when paired with our high-accuracy Type T Thermocouple probes, delivers the same level of precision you've come to expect from the Physitemp brand.

Small, Fast, and Accurate Probes:

Physitemp's specialized Type T thermocouple probes are designed for high accuracy and rapid response times. The VT-4 is perfect for a wide range of applications, from life science animal research, laboratory application, analytical chemistry, to precise calibration requirements. The VT-4 offers a versatile and affordable solution for all precision temperature needs.

Four Independent Channels: Monitor up to four Type T thermocouples at once, enabling simultaneous data collection and comparison without the need for multiple devices.

Intuitive Touch Interface: The 5-inch color capacitive touch screen provides a clear, interactive display for real-time data, graphs, and easy menu navigation.

Comprehensive Data Logging: The VT-4's internal memory stores temperature data, while USB-C connectivity and

support for external USB drives makes downloading data for analysis quick and easy. Export data in CSV or Excel formats for seamless integration into your workflow.

Portability & Durability: With a rugged anodized aluminum chassis, gasketed ABS polymer side covers, and an internal rechargeable battery, the VT-4 is built for both laboratory and field use.

Advanced Connectivity:

- USB-C: Provides fast charging and direct data transfer to a computer.

- Bluetooth®: The companion mobile app (iOS/Android) allows you to monitor all four channels in real time, view interactive graphs, and receive alarm notifications on your smartphone or tablet.

(see over for specifications)

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Additional Features

• 4 Independent Channels

Simultaneous monitoring of four Type T thermocouples.

• Selectable Units

View temperatures in °C, Kelvin, or °F.

• User-Defined Fault Alarms

Programmable high/low thresholds trigger on-screen and audible alerts.

• Data Logging & Storage

Internal memory saves temperature data for later review or export.

• Digital & Analog Outputs

One user-selectable DAC output provides real-time analog signal of any channel.

USB Connectivity

-USB-C fast charging of the rechargeable battery.

- Direct USB connection to a computer for data export and software integration.

- Support for USB storage devices for quick file transfer.

- 5-Inch Capacitive Touch Display – High-resolution color interface with intuitive menus.

- Bluetooth – Wireless connectivity via IOS / Android applications for on the go monitoring

- Portability – Fully portable thermometer powered by internal rechargeable batteries

Construction

Chassis: Precision-milled anodized aluminum for durability and heat dissipation.

Side Covers: ABS polymer with integrated gasket seals for environmental protection and a modern aesthetic.

VERATHERM VT-4 SPECIFICATIONS

Sensor Type:	Type T Thermocouple (4 inputs)
Temperature Range	-100 °C to +400 °C (sensor-dependent)
Resolution	0.01 °C
Accuracy	±0.1 °C typical (with high-grade probe)
Display	5" color capacitive touch screen
Data Storage:	Internal memory
Bluetooth	BLE 5.0 (10m Range)
Analog Output (DAC)	1 Analog Output: 0–5 V, user-assignable to any channel
USB Interface	USB-C (charging & data), USB-A for external drive
Power / Charging	USB-C PD fast charge, internal Li-ion battery
Dimensions	7.95" W × 1.97" H × 6.69" D
Weight	approx 3 Lbs.
Operating Temperature:	0 °C to 70 °C
Enclosure Protection:	Gasketed ABS side covers for dust and splash resistance

Software-

only applicable to the VERATHERM VT-8 Data Acquisition System

- **Real-Time Monitoring** – View all four channels simultaneously with live numerical and graphical displays.
- **Graphical Interface** – Interactive charts for trend analysis, zooming, and channel comparison.
- **Threshold Management** – Configure high/low temperature limits per channel with automatic fault alerts.
- **Time-Stamped Annotations** – Add notes or tags directly on the data time line to mark critical events.
- **Data Export & Reporting** – Save or export recorded sessions in CSV or Excel formats for further analysis or archival.
- **Seamless USB Connection** – Plug-and-play via USB-C for fast data transfer and firmware updates.

Software Mobile App (iOS & Android) Applies to VT-4 and VT-8

Enhance portability and convenience with the companion smartphone application:

- **Bluetooth® Connectivity** – Secure wireless link to the thermometer for untethered operation.
- **Four-Channel Live Display** – Monitor all temperature channels in real time directly on your phone or tablet.
- **Data Logging & Storage** – Save measurement sessions to the phone's local storage for immediate access or sharing.
- **Interactive Graphs** – View and analyze temperature trends with zoom and channel selection.
- **Alarm Management** – Receive push notifications for high/low temperature faults even while the app runs in the background.
- **Data Export** – Quickly share or email collected data in CSV format.