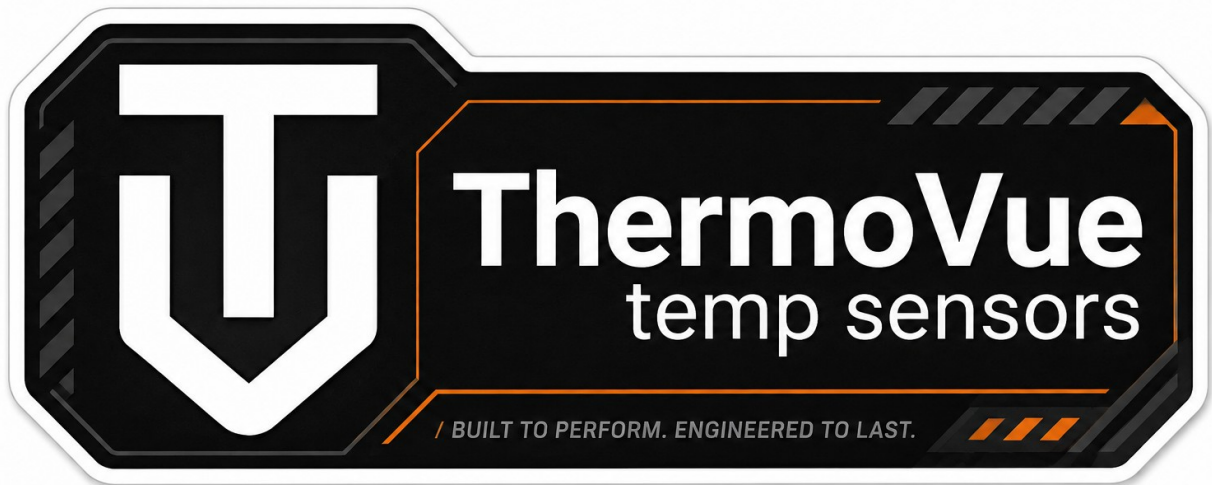




THERMOVUE PRO2

Instruction Manual

Touchscreen belt temperature monitor

MANUAL V1_3 | SOFTWARE REFERENCE PRO2 INITIAL RELEASE V1_14 | SEPTEMBER 2026

WELCOME

Built for a faster read

Everything important is visible at a glance. Details stay one tap away.

ThermoVue Pro2 places live belt temperature, session trends, dimming controls, and cooling-request settings on one compact touch display. This manual follows the installed-and-tested Pro2 Initial Release V1_14 interface.

READ THIS FIRST Park before changing settings. ThermoVue is a monitoring aid and does not replace belt inspection, maintenance, or safe vehicle operation.

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Four rules that protect the product

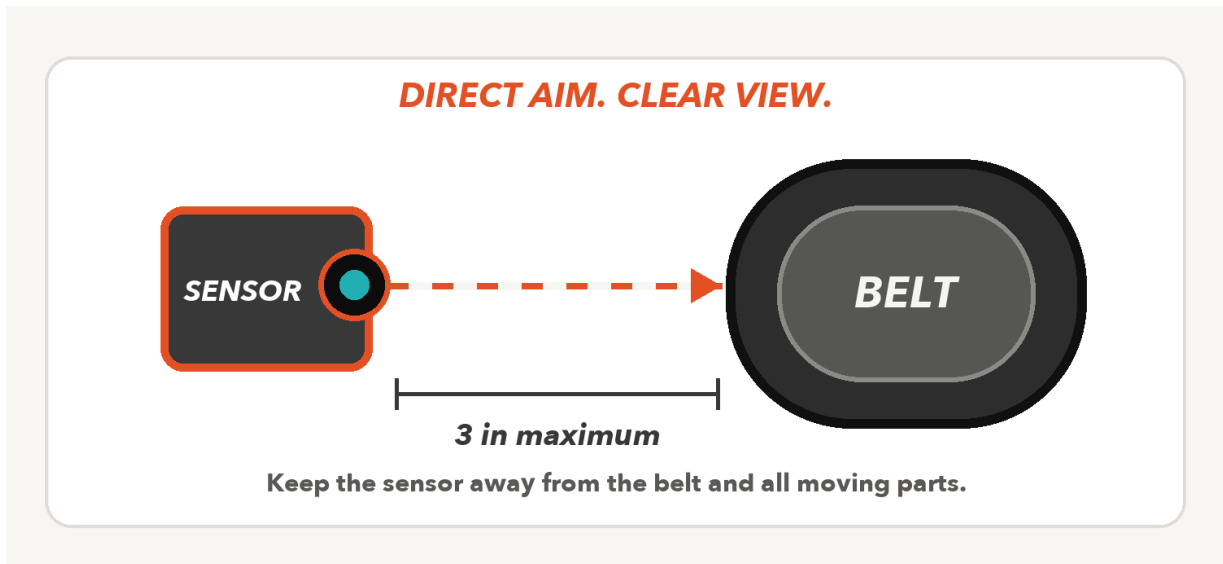
- Do not rely on a reading marked NO SENSOR or STALE.
- Keep the sensor aimed at the belt and clear of moving parts.
- The cooling icon shows a calculated request. V1_14 does not drive an external cooling-output pin.
- Keep vehicle power stable during a firmware update.

INSTALLATION

Install it right

Good sensor placement matters more than any setting.

1. Disconnect or isolate vehicle power before making permanent wiring connections.
2. Mount the display where it is easy to see without blocking your view or vehicle controls.
3. Connect the red power lead to a fused +12 V source. Connect the black lead to a clean ground.
4. Route the sensor cable away from moving parts, pinch points, sharp edges, and high heat.
5. Mount the sensor within 3 inches of the belt, aimed squarely at the belt surface with a clear view.
6. Restore power. Wait for the ThermoVue splash, then confirm that the Home screen shows a live reading.



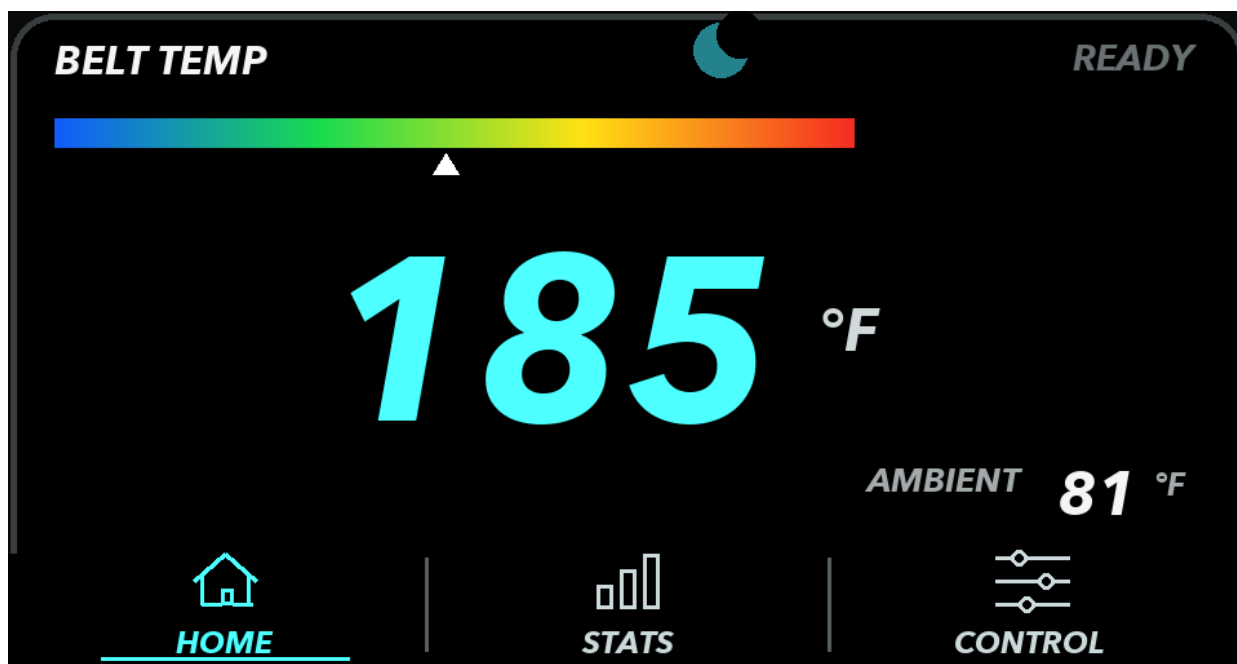
Sensor placement reference. The sensor must not touch the belt or any moving part.

SENSOR PLACEMENT MATTERS A sensor aimed at the clutch housing, exhaust heat, or open air can display a misleading temperature. Recheck aim and distance before relying on the reading.

HOME

The live view

Your primary screen while the vehicle is in use.



Sample values are shown for illustration. Your readings and settings will differ.

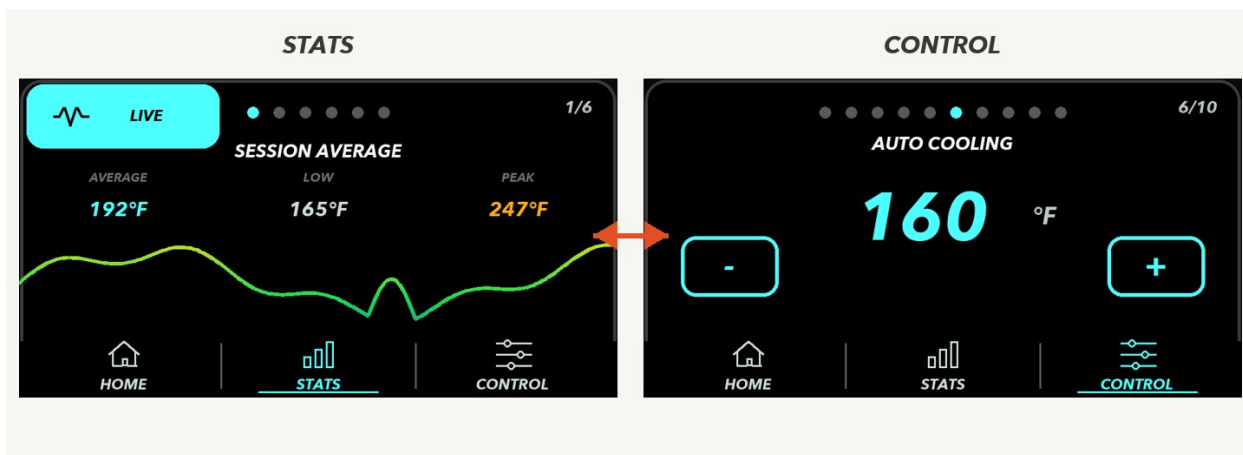
ON SCREEN	WHAT IT MEANS
Belt Temp	The current live belt temperature. This is the main number to watch.
Color spectrum	A quick temperature cue that moves from cooler blue through green and yellow toward hot red.
Ambient	The temperature around the sensor. It is not a replacement for the belt reading.
Status	READY, COOLING, NO SENSOR, or STALE appears at the top right.
Cooling icon	Appears when the selected cooling request is active. It does not prove external equipment is running.
Moon / sun	Tap the moon to enter Night Mode. Tap the sun to return to the daytime display.
Bottom tabs	Tap HOME, STATS, or CONTROL to move directly to that screen.

USE THE NUMBER FIRST The color bar is a quick visual guide. The live temperature and your machine manufacturer's service limits remain the primary reference.

NAVIGATION

Move around with one touch

The three bottom tabs are always your way home.



Stats and Control each contain a row of subpages. The bright dot shows your current position.

Change pages

1. Tap HOME, STATS, or CONTROL at the bottom of the screen.
2. On Stats or Control, swipe left or right to move through the subpages.
3. You can also tap near the upper left or upper right side of the screen to move backward or forward.
4. On a Control page, tap the large - or + target to change the setting.

Set the belt installation date

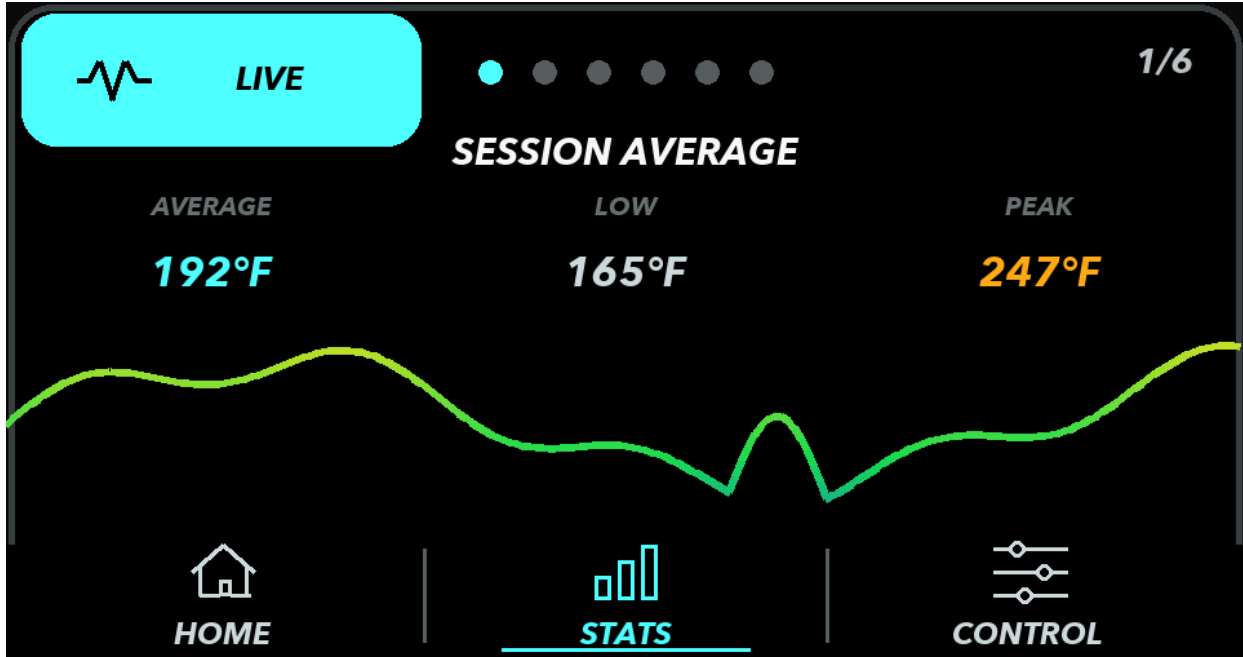
- Open CONTROL, then move to Belt Life Date.
- Tap the date to move the selection between month, day, and year.
- Use - or + to change the selected part. Each adjustment is saved as you make it.

TOUCH TIP The active touch areas are larger than the outlines. Use a quick, deliberate tap and lift your finger before the next tap.

STATS

See the whole session

Six large views keep useful history readable on the small display.



The auto-scaled graph follows the Home color spectrum. Tap LIVE / LAST to compare the current ride with the prior saved ride.

STAT VIEW	WHAT IT TELLS YOU
Session Average	Shows Average, Low, Peak, and an auto-scaled ride graph. Tap LIVE / LAST to switch between the current and prior ride.
Peak Temp	The highest valid belt temperature recorded during the current powered session.
Lowest Temp	The lowest valid belt temperature recorded during the current powered session.
Belt Active	Accumulated time when ThermoVue detects the belt moving, shown in hours and minutes.
Hot Zone	Moving-belt time at or above 220 °F (104 °C), plus its share of total Belt Active time.
Install Date	The belt installation date currently saved in Control.

AVERAGE WARM-UP Session Average needs about one minute of live readings before the value appears. A blank average immediately after startup is normal.

CONTROL 1 OF 2

Set the way ThermoVue responds

Use the top dots to move through ten Control pages.



Example: Auto Cooling set to 160 °F. Use - or + to adjust the selected setting.

SETTING	HOW TO USE IT
Brightness	Sets the daytime screen brightness from 1% to 100%.
Night Mode	Changes the interface to red and black and lowers the backlight to 10% for this powered session.
Dim Level	Sets vehicle-headlight dim brightness from 15% to 75% in 5% steps. New units begin at 35%.
Belt Life Date	Stores the month, day, and year for the belt now installed.
Cooling Mode	AUTO follows the set temperature. ON keeps the request active. OFF disables the request.
Auto Cooling	Sets the temperature where AUTO activates the selected cooling request.
Hot Belt Alert	Sets the visual hot threshold. Home alternates the live reading with a flashing red HOT BELT warning.

FACTORY REFERENCE New units begin in AUTO with Auto Cooling at 160 °F and Hot Belt Alert at 250 °F. Saved settings may differ. ThermoVue keeps the hot alert at least 10 °F above Auto Cooling.

CONTROL 2 OF 2

Match the unit to your setup

The final three pages set the displayed cooling device, units, and update mode.

SETTING	WHAT IT CHANGES
Cooling Device	Choose FAN or MIST so the Home icon identifies the intended cooling system.
Temp Units	Choose °F or °C. Temperatures throughout Home, Stats, and Control change together.
Firmware Update	Creates a temporary local Wi-Fi network used to install an official ThermoVue Pro2 update file.

Night Mode

Tap the moon on Home or open CONTROL > Night Mode. The display changes to red and black and the backlight drops to 10%. A Hot Belt warning remains bright red. Tap the sun or switch Night Mode OFF to restore daytime colors and brightness. Night Mode always resets to Day Mode after a power cycle.

Vehicle dimming

When the approved headlight-dim input is active, ThermoVue applies the saved Dim Level after a five-second startup grace period. If Day brightness or Night Mode requests a darker level, the darkest active request wins.

Cooling Mode

AUTO: ThermoVue activates the displayed request when belt temperature reaches the Auto Cooling setting.

ON: ThermoVue keeps the displayed request active until you change the mode.

OFF: ThermoVue keeps the displayed request off, even when temperature rises.

VERIFY THE HARDWARE V1_14 calculates and displays a cooling request but does not drive an external cooling-output pin. Any accessory controller requires compatible output firmware and separate hardware verification.

Know what the alert does

Hot Belt Alert is visual. At the set point, Home alternates the live reading with a flashing red HOT BELT warning. Respond to the condition; do not raise the threshold simply to hide a hot reading.

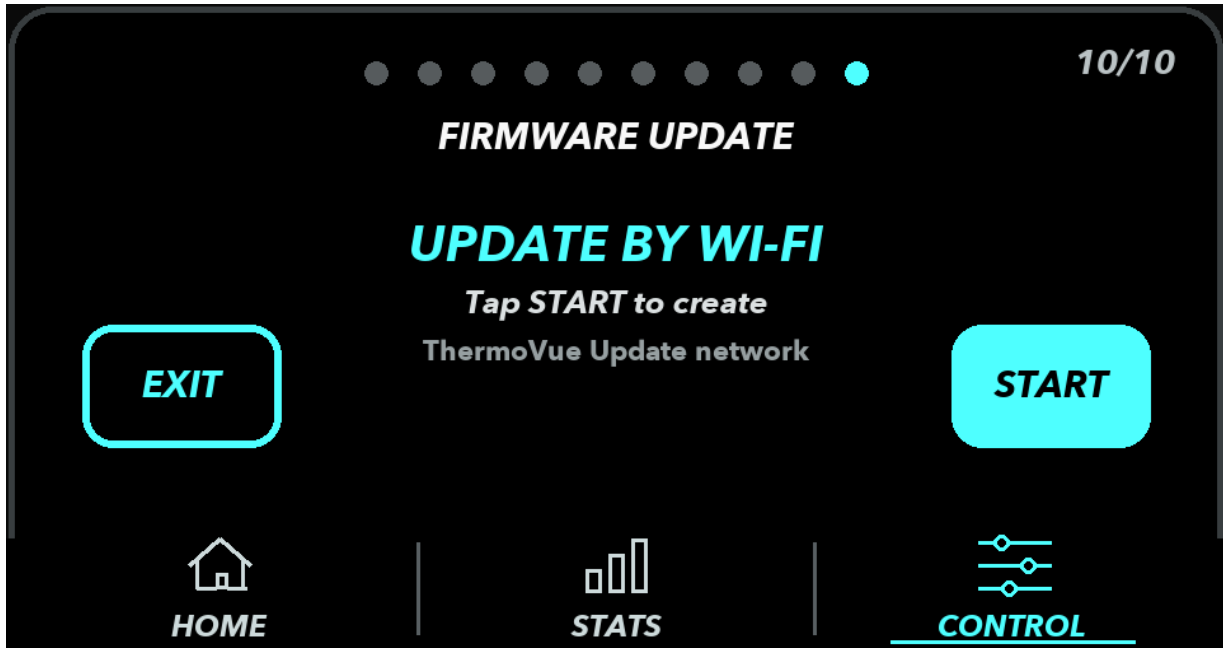
Saved and session-only settings

Brightness, Dim Level, date, cooling selections, thresholds, and temperature units are saved when changed. Night Mode is session-only and restarts in Day Mode after power is cycled.

FIRMWARE UPDATES

Update without returning the unit

A phone, tablet, or laptop can install the official .bin file.



START creates the update network. EXIT closes it when no update is being installed.

1. While you still have internet access, download the official ThermoVue Pro2 .bin file from ThermoVuePro.com > Support > ThermoVue Pro2 > Pro2 OTA update files.
2. Park the vehicle and keep ThermoVue connected to stable power.
3. Open CONTROL, move to Firmware Update, and tap START.
4. On your phone, tablet, or laptop, join the Wi-Fi network named ThermoVue Update. It has no password.
5. Open a web browser and enter <http://192.168.4.1>.
6. Tap Select the ThermoVue .bin file, choose the download, then tap Install update and wait for ThermoVue to restart automatically.

USE THE CORRECT FILE Install only an official ThermoVue Pro2 firmware file. Never use a Pro4 file or a file made for another product. Do not remove power while INSTALLING is shown.

EVERYDAY USE

Know what the screen is telling you

Most problems can be narrowed down from one status word.

SCREEN	MEANING	WHAT TO DO
READY	Live sensor data is current and the cooling request is off.	Continue normal monitoring.
COOLING	The selected cooling request is active.	V1_14 does not drive an external cooling-output pin.
NO SENSOR	ThermoVue cannot find the belt sensor.	Check the sensor plug, cable, and installation.
STALE	The last reading is no longer current.	Stop relying on the display until live data returns.
--.-	ThermoVue is waiting for a valid value.	Allow startup to finish, then inspect sensor aim and wiring.

Common fixes

Reading does not change: Clean the sensor lens, confirm the sensor is within 3 inches, and aim it directly at the belt.

Touch feels unresponsive: Dry the screen, use one finger, tap inside the large target, then fully lift before tapping again.

Screen is too dim: Tap the sun to leave Night Mode, check whether the vehicle lights are activating Dim Level, then adjust Control > Brightness or Dim Level while parked.

Update network does not appear: Return to Firmware Update, tap EXIT if shown, then tap START again and wait a few seconds.

Unexpected restarts: Inspect the power source, fuse, ground, and connectors for a loose or unstable connection.

WHEN TEMPERATURE IS HIGH Reduce load and follow the vehicle and belt manufacturer's instructions. Inspect the belt and cooling system before continuing. Never use a higher alert setting to dismiss a real heat problem.

OWNERSHIP

Care, service, and your owner record

Keep this page with the vehicle or service records.

Simple care

- Clean the display with a soft, dry or lightly damp cloth. Do not spray cleaner directly on the screen.
- Keep the sensor lens clean and unobstructed.
- Inspect the sensor cable and power wiring after service work or hard use.
- Do not use solvents, abrasives, or sharp tools on the touchscreen.

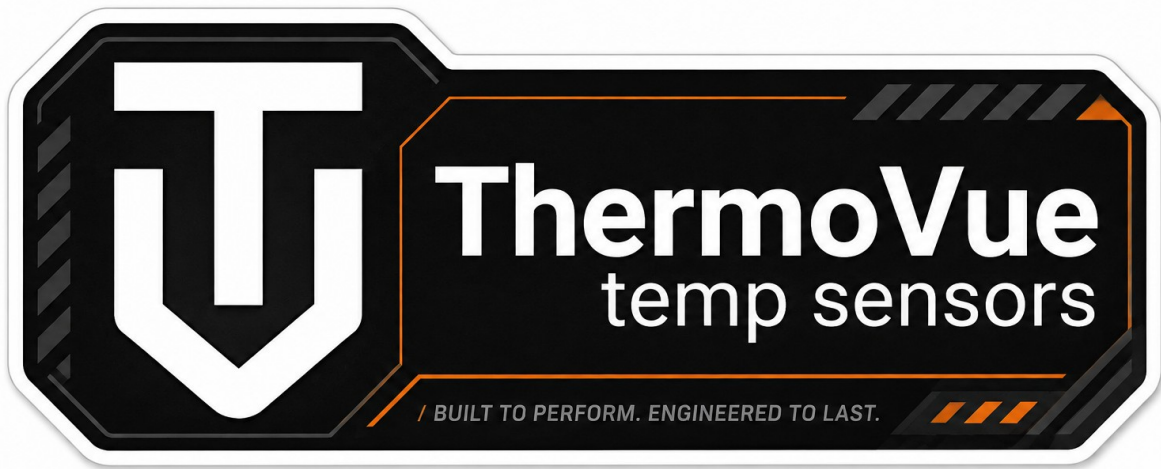
Warranty and service

ThermoVue includes Auburn Wire Works' one-year product warranty from the original purchase date. Keep proof of purchase and installation details. Visit ThermoVuePro.com for current service instructions and warranty terms.

OWNER RECORD	DETAILS
ThermoVue serial number	
Date purchased	
Date installed	
Vehicle / machine	
Belt type / part number	
Installer / shop	

PRODUCT RESPONSIBILITY The installer is responsible for safe wiring, secure mounting, cable routing, and confirming that the display and sensor do not interfere with moving parts, hot surfaces, or vehicle controls.

ThermoVue firmware, graphics, and documentation are proprietary to Auburn Wire Works. Manual V1_3, September 2026.



BUILT TO PERFORM. ENGINEERED TO LAST.

Product support, current guides, and official firmware

ThermoVuePro.com

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