



Therma Touch "

Product sheet

4.3" Touch Screen HMI

V1.1 version

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Key features

- Ultra-compact 4.3" touchscreen
 Small footprint with clear status display and intuitive user interface.
- Single-mat control with smart switching
 Controls one heating mat based on real-time sensor data and setpoint logic.
- Temperature & power monitoring
 On-screen view of current temperature,
 heater status, energy usage and total run time.
- Built-in delay logic
 10-second start-up delay prevents tripping from transformer inrush current.
- User-definable alarm conditions
 Alarm if temperature is below setpoint for too long user sets duration.
- Trend graphing & history logging
 View temperature over time; optional power trend with current sensor.
- Remote alarm output & digital inputs

 Door switch, defrost interlock, freezer status,
 fault triggers.
- PIN-protected settings menu
 Optional screen lock and secure access to temperature & system config.
- Wi-Fi enabled for remote access and data downloads via web page or app.

Benefits

Simple to use

Clear touchscreen with icon navigation; minimal training required.

Compact but capable

Fits small control enclosures without sacrificing functionality.

Peace of mind

Faults and alarms clearly displayed and logged for traceability.

Valuable monitoring

Gather valuable temperature and power data for effective management and reporting.

Energy efficient

System powers on only when needed, saving energy while protecting the subfloor.

Get access to data

Vital access to data ensures heating system continues to protect your investment.



Product information

The new ThermaTouch™ range of controllers are available in 7" and 4.3" sizes. The 4.3" controller by Thermatek® provides precision control and monitoring **for a single heater mat system** (ThermaMod™ or ThermaTrad™). This versatile system can also be used with any of our heater products where temperature and power measu-rement is required. Designed for ease of use this system offers smart touchscreen simplicity in a compact footprint. Optional Wi-Fi connectivity allows full remote access via a secure web page or app, mirroring the HMI screens to enable real-time monitoring, alarm viewing, and setpoint adjustments.

Enhanced capabilities of the 4.3" model

• 4.3" colour touchscreen display

Crisp, glove-friendly display with real-time feedback

· User-adjustable temperature setpoint

Typically set at 7°C to prevent frost heave or ice formation User adjustable hysteresis setting

· Clear status overview

Current temperature (°C)

Current power being used (calculated or measured via 4-20mA)

Heater ON/OFF indicator

Fault status

Total running time and total energy consumption

· System trend logging

Temperature over time

Power usage trend

Alarm and safety features

Temperature below setpoint for user-defined period triggers alarm

Sensor faulty alarm

Remote alarm output available

On-screen alarm history with timestamps

· Delayed start logic

Built-in 10-second start delay to avoid transformer inrush trip

User access control

Screen lock and PIN-protected settings menu

· Wi-Fi connectivity

Connect remotely using the Thermatek App or to a designated html page

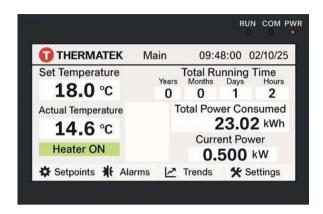


Citation ISO Certification

9001: 2014

Typical connections

- 1 x NTC temperature input (for heater sensor)
- 12 x digital inputs (e.g. door contact, defrost interlock, freezer fault)
- 8 x digital relay outputs (heater, remote alarm, spares)
- Optional analog input for current sensor (power feedback)



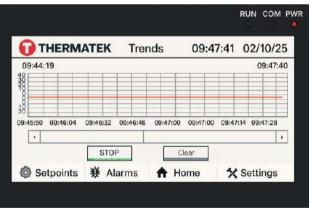
Main screen Temperature et Power control

Typical applications

The ThermaTouch™ 4.3" controller is ideally suited for a wide range of cold store heating scenarios. It is commonly used to **prevent frost heave under freezer floors**, **manage condensation** in critical zones, and provide **targeted heating at door thresholds**, **ramps**, and entry points to maintain safe, **ice-free access**. The system also supports **void and column heating**, offering flexibility for complex installations, and can be configured as part of a **frost heave recovery strategy** where rapid corrective heating is required.



Alarm status panel



Trends overview panel





About us

Based in the UK, Thermatek® specialises in bespoke frost heave and condensation prevention systems, designed and manufactured in the UK to meet the unique demands of each client. With almost 35 years of experience, 14,000 installations and ISO9001-certified quality, our durable, ultra low-voltage systems are trusted by highprofile clients around the world. Our solutions offer unmatched fit-and-forget reliability ensuring cold stores run smoothly and carefree.

>14,000 projects _____



+2°C to -80°C



10 sqM to > 9,000 sqM



35 years



ISO 9001



International



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