MonitorTEC™ Digital Temperature Controller
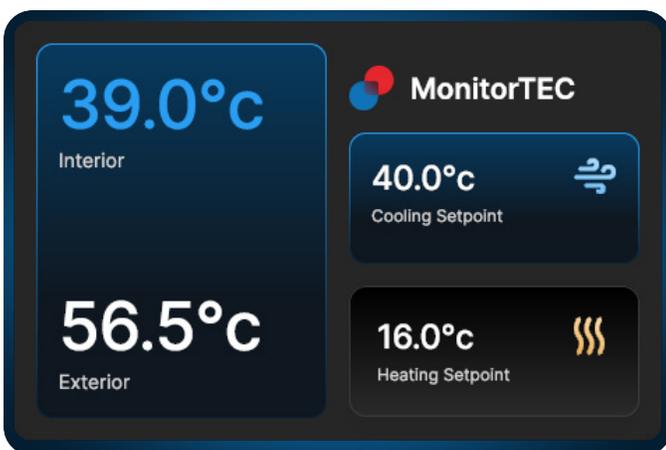
Product Overview

The **MonitorTEC™ Digital Temperature Controller** delivers next-level precision and ease of use for EIC's thermoelectric air conditioners and cooled enclosures.

This upgraded model replaces manual monitoring with **real-time temperature visibility and a streamlined touchscreen interface**, giving operators instant feedback and reliable temperature management for sensitive electronics and equipment in harsh environments.

Key Features

- **Precise Control:** Maintains temperature within ±1°F or better of the setpoint for exceptional climate stability.
- **Full-Color Touchscreen:** Intuitive display replaces push-button navigation, simplifying adjustments and monitoring.
- **Real-Time Visibility:** View both setpoint and actual temperatures at a glance.
- **Integrated Alarms (Optional):** Configurable alarm outputs alert operators to deviations before issues arise.
- **Versatile Inputs & Outputs:** Dual outputs and two RTD temperature sensor inputs enable flexible configuration for diverse systems.

How It Works

MonitorTEC™ continuously measures internal and external temperatures within the enclosure, automatically adjusting thermoelectric modules to maintain the defined setpoint. The touchscreen display provides live feedback for both heating and cooling functions, ensuring precise environmental control without lengthy, complicated verification.
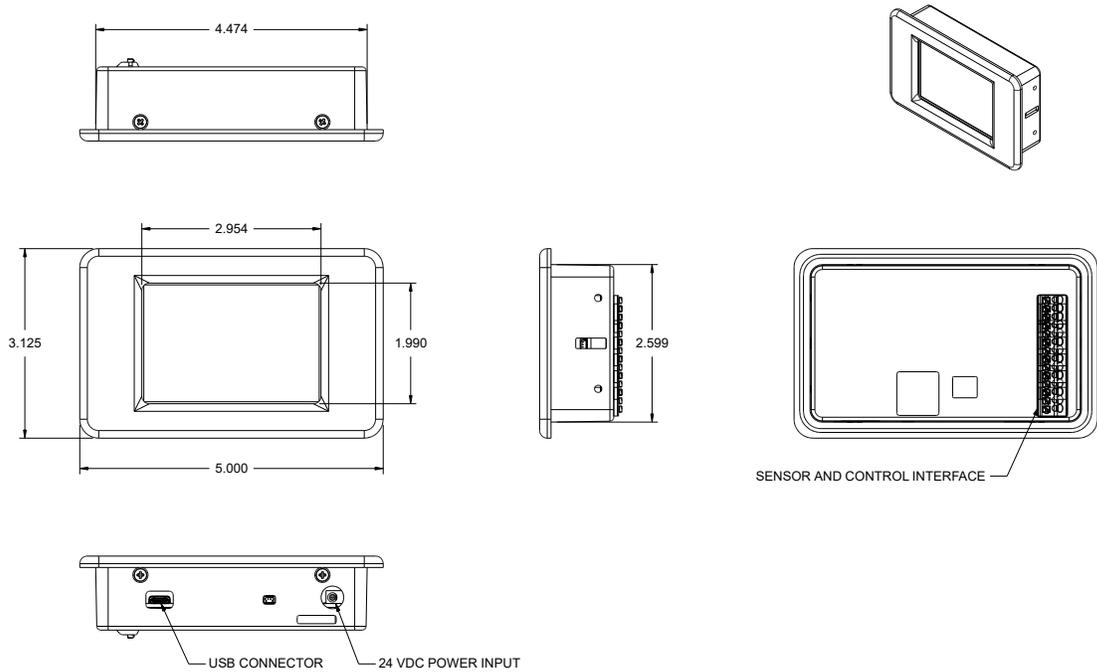
Optional alarm outputs can trigger visual or audible alerts, giving teams proactive notice of performance changes.

Benefits

- **Confidence in Performance:** Real-time temperature data eliminates guesswork and manual checks.
- **Reduced Downtime:** Proactive monitoring and alarm outputs help identify issues before they impact operations.
- **Ease of Use:** Modern touchscreen interface simplifies operation for technicians, engineers, and plant staff.
- **System Compatibility:** Designed for direct integration with EIC's thermoelectric air conditioners – no complex installation or reconfiguration required.
- **Improved Efficiency:** More precise control means stable operation, less energy waste, and longer component life.

Technical Specifications

Dimensions	2.6"H x 4.48'W x 1.1"D body, 3"H x 5"W x 0.188"D face
Power	5VDC at 1A, 120VAC at 50mA, USB-C input, 5 Watts
Display Type	Full-color touchscreen
Configuration	Dual outputs and user-selectable inputs
Compatibility	EIC thermoelectric air conditioners (400–5500 BTU)

4.474

2.954

3.125

1.990

5.000

2.599

SENSOR AND CONTROL INTERFACE

USB CONNECTOR

24 VDC POWER INPUT

Available now through EIC Solutions.

For detailed specifications, configuration assistance, or pricing, contact our cooling experts at www.eicsolutions.com/monitorTEC