

# ATCOM™

## Heat Trace Control Panels

The ATCOM (Advanced Thermal Control & Optimization) panel is an independent control system for heat trace applications (both freeze protection and process maintain). Functionalities include power distribution, sensor monitoring, alarming, and data delivery. The panel is microprocessor-based, controlling up to 48 circuits at 120-480VAC. A weatherproof touchscreen allows users to select between various control methods: line-temperature-based, ambient-based or manual. Up to four field RTDs can be assigned to each circuit, providing a thorough overview of the application status.

Alarms are generated for temperature, current, and ground fault leakage. Users can modify setpoints and other circuit data via the touchscreen. Project-specific setpoints are conveniently preassigned to each panel, in true turn-key nature.

A remote access software is also provided, allowing users to access the touchscreen directly from their computer. Communications with the plant DCS is also available for full data delivery.



### Specifications

Operating Temperature	-4 to 122°F
Area Classification	Ordinary or Class 1 Div 2
Enclosure Rating	NEMA 4 Steel or NEMA 4X Stainless Steel
Enclosure Mounting	Wall Mount or Floor Mount
Line Voltage	120-480VAC, 3-Phase
Main Breaker Rating	600VAC, 3-Phase, 100-250A, Thermal Magnetic
Input	RTD (100 Ohm Platinum 3-Wire)
Output	Solid State Relay (TRIAC)
Max Output Rating	40A per Circuit
Short Circuit Current Rating	10kA
Alarms	Temperature (high/low), Amperage (low), Ground Fault (high/trip)
Communication	Ethernet, Modbus TCP/IP
Approvals	UL 508A, UL 698A

### Features

- > NEMA 4/4X Enclosure
- > Power Distribution: Main Breaker, Panel Board, Circuit Breakers
- > Circuit Count: 12-48
- > Circuit Rating: 30-40A at 120-480VAC
- > Ground Fault Tripping
- > Through-Door Main Disconnect
- > Solid State Relay Control: Line-Temperature-Based, Ambient-Based
- > 16" Industrial Touchscreen HMI
- > Sensor Mapping, Monitoring, & Alarming  
Current (A), Ground Fault Leakage (mA), Temperature (°F)
- > System Audit Test Feature
- > Remote Access Software & Phone App
- > DCS Data Delivery & Dry Contact Alarm
- > Optional Enclosure Heating/Cooling
- > UL 508A Listed
- > Optional C1D2: Type Z Air Purge & Pressurization
- > Fail-Safe Feature: HT Fail On/Off Option



**Model Selection:**

**Advanced Series:**

PLC operated,  
individual circuit control,  
line sensing & alarming

**Heat Trace Voltage**

**120:** 120VAC  
**208:** 208VAC  
**277:** 277VAC  
**480:** 480VAC  
**CMB:** Combination

**Field RTD Count**

**0:** No field RTDs (ambient only)  
**##:** Between 1 to 50

**A** - **36** - **120** - **A** - **7** - **FX**

**Circuit Count**  
**##:** Between 12 to 48

**PLC Fail-Safe**  
**A:** H.T. fails ON  
**B:** H.T. fails OFF

**Options (combinable)**  
**0:** No options  
**A:** Enclosure AC/cooling  
**F:** Fiberoptic converter  
**H:** Enclosure heater  
**X:** NEMA 4X stainless steel  
**Z:** C1D2 - Type Z air purge

**Basic Series:**

Mechanically operated

**Heat Trace Voltage**

**120:** 120VAC  
**208:** 208VAC  
**277:** 277VAC  
**480:** 480VAC  
**CMB:** Combination

**Options (combinable)**

**0:** No options  
**A:** Alarm for branch BRK-OFF  
**X:** Nema 4X stainless steel  
**Z:** C1D2 - Type Z air purge

**B** - **36** - **120** - **2** - **AX**

**Circuit Count**  
**##:** Between 12 to 48

**Control Method**  
**1:** Main breaker (ON/OFF)  
**2:** Ambient thermostat with HOA switch

› **3-year repair or replacement warranty.** Please scan the QR code to review the full details or visit [diamondthermalsystems.com/wp-content/uploads/2022/08/ATCOM\\_Panel\\_Warranty.pdf](http://diamondthermalsystems.com/wp-content/uploads/2022/08/ATCOM_Panel_Warranty.pdf)

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