

# ATCOM™

## A-Series 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	25kA Main / 10kA Branch (upgradable)
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

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**HTP-01**    **MONITOR SCREEN (CKT 1-12)**    **AMBIENT(°F):** 27.2    **PANEL(°F):** 58.5    07:42:09

CKT #	DESCRIPTION	AMPS	AMP LO ALRM SP	GF1 (mA)	GF1 TRIP SP	GF1 RESET BUTTON	TEMP(°F) [LOWEST]	CONTROL TEMP SP	TEMP LO ALRM SP	TEMP HI ALRM SP	RTD TYPE
1 (ENABLED)	HT05 HP DRUM	18	16	1	30	RESET	183.5	180	170	620	LINE-SENSING
2 (ENABLED)	HT10	0	16	0	30	RESET	274.9	180	170	620	LINE-SENSING
3 (ENABLED)	HT11	13	10	2	30	RESET	178.3	180	170	620	LINE-SENSING
4 (ENABLED)	HT17 BOIL W	5	10	1	30	RESET	157.1	180	170	620	LINE-SENSING
5 (ENABLED)	HT18	9	7	3	30	RESET	181.7	180	170	620	LINE-SENSING
6 (ENABLED)	HT1 GROUND	0	10	1	30	RESET	188.9	180	170	620	LINE-SENSING
7 (ENABLED)	HT2	0	13	0	30	RESET	175.3	180	170	620	LINE-SENSING
8 (ENABLED)	HT3	16	13	1	30	RESET	184.6	180	170	620	LINE-SENSING (MULTIPLE)
9 (ENABLED)	HT4	7	5	2	30	RESET	27.2	50	-50	150	AMBIENT
10 (ENABLED)	HT6 INS37	0	7	1	30	RESET	722.8	180	170	620	LINE-SENSING
11 (ENABLED)	HT7	15	13	4	30	RESET	182.1	180	170	620	LINE-SENSING
12 (DISABLED)	HT22	0	8	0	30	RESET	27.2	50	-50	150	AMBIENT

HOME    **CKT 1 - 12**    CKT 13 - 24    CKT 25 - 36    CKT 37 - 48    HAND OFF AUTO

› **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](https://diamondthermalsystems.com/wp-content/uploads/2022/08/ATCOM_Panel_Warranty.pdf)

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