

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	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



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	GFI (mA)	GFI TRIP SP	GFI 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
› **Designed and assembled in the USA**



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› **Ready to Deliver**

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