

ACCUTRACE™

Single & Dual Zone Heat Trace Control Panel



DESCRIPTION

Valin's single and dual loop control panel incorporates the latest up-to-date technology and is packed with features designed to help optimize your heat trace system. The easy-to-use touchscreen and intrinsically safe internal components allow the panel to be used in hazardous locations (class I, division II, groups A, B, C, and D) while providing an easy to use interface.

The AccuTrace™ panel has advanced PID algorithms designed to maintain temperature in the most challenging applications. The panel has 40 amp Solid State Relay controls and a multitude of alarms, including hi temp, low temp, high current, low current, sensor failure and Ground Fault Equipment Protection, creating a package of unrivaled performance.

For extreme cold starts and long circuit lengths, the AccuTrace™ panel employs a soft start feature, modulating the inrush current. This reduces the number of connections (potential points of failure), which in turn lowers overall project costs.

Tired of endless menus and pushing frustrating buttons? The AccuTrace™ has a 7", full color, easy-to-navigate display with menus in plain English. It can be programmed in minutes, reducing project commissioning time and bringing the heat trace on line faster. Remain connected with protocols that include Ethernet, TCP/IP, Modbus, Bacnet, and webservice. We also offer 3 levels of password protection, to further ensure the highest security while allowing quick access in the field, as appropriate.



- 1 & 2 Circuit Models
- 40 Amps per Circuit
- SSR Control
- 100-227 VAC, 50/60 Hz
- Hazardous (Class I, Division 2) or Non Hazardous Areas
- Soft Start Feature
- Operating Temperature:
 - -4°F to 104°F
- Modbus & Optional Ethernet Communications*
- 10" x 8" x 6" (26cm x 21cm x 15cm) NEMA 4X FG Wall Mount Enclosure
- High Resolution 7" Touchscreen
- Visual Indication for Power, Load & Alarm per Circuit
- PID, On/Off or Manual Control Modes
- One or 2nd Sensor Optional Inputs / Circuit – Min, Max & Averaging
- 2 Circuit Ambient Control from 1 RTD Sensor
- Full Monitoring & Alarms
 - High / Low Temperature & Current, GFEP & Sensor Failure
- Programmable Failure Mode On Sensor Failure
- Voltage Free Contact with Shared Common for Remote Alarm Notification
- Password Protected Security Levels
- UL/cUL - CE pending

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www.valin.com



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SPECIFICATIONS

Input			
Sensor Type	3-wire RTD, 100 Ω PT, 0.00385 Ω/Ω/°C, 20 Ω balanced lead wire		
Number of Sensor Inputs	1 or 2 per Circuit - 2nd Sensor Optional		
Sensing Configuration.....	Range: Single, Low, High, Average, Use RTD1 to control both circuits		
Output			
Power Switching.....	SSR		
Number of Circuits	1 or 2		
Capacity	40 Amps per Circuit		
Control Types			
On/Off.....	Control mode must be set to Auto		
Dead band, (°F).....	Range: 2 – 100		
Manual.....	Range: 0 – 100%		
Soft Start, Current Clamping.....	Enable or Disable		
Settings			
Temperature (PV).....	Range: -80°F to +1100°F (-62°C to +593°C)		
Low Temperature Alarm.....	Range: -80°F to +1050°F, Off (-62°C to +566°C, Off)		
High Temperature Alarm	Range: -80°F to +1150°F, Off (-62°C to +621°C, Off)		
Low Current Alarm.....	Range: 0.1 A – 40.0 A, Off		
High Current Alarm.....	Range: 0.1 A – 40.0 A, Off		
GFEP	Range: 0 mA – 100 mA		
GFEP Alarm Condition	Alarm Only, Alarm & 30 mA Trip, Alarm & Latch, Alarm & Trip & Latch		
Output on Sensor Failure	Range: 0–100%, Bumpless Transfer to Manual Mode		
Calendar.....	Year, Month, Day, Date, Hour & Minute		
Audible button depress.....	Range: On, Off		
Security	3 Levels of password protected security		
Alarm State	Normally Open, Normally Closed		
Display, HMI, Indication			
Display.....	7" Full Color Resistive Touch Screen		
Alarms			
Alarm Types	Low & High Temperature, Low & High Current, High GFEP, Sensor Failure		
Alarm Relays	24 VDC, 250 mA		
Alarm Contact State	Mode	Default	Optional
	Normal Operation	Closed	Open
	Alarm Condition	Open	Closed
	Power Off	Open	Open
Communications			
Modbus	RTU/RS-485 (2 or 4 wire), /RS-422		
Baud Rate, Hz	2400, 4800, 9600, 19200, 38400, 56000		
Parity	Range: Even, Odd, None		
Modbus ID	Range: 1–255		
Ethernet IP (Optional)	Webserver over Ethernet (Pending)		
Operating & Environmental			
Temperature	-4°F to 104°F		
Power Supply	100 to 277V 50/60Hz		
Protection.....	IEC IP66		
Enclosure rating	NEMA 4X FG (Optional Stainless Steel)		
Approvals	UL/cUL Ordinary and Class I, Division 2, Groups A,B,C,D Hazardous Locations. (UL File: E503604) (CE is pending)		

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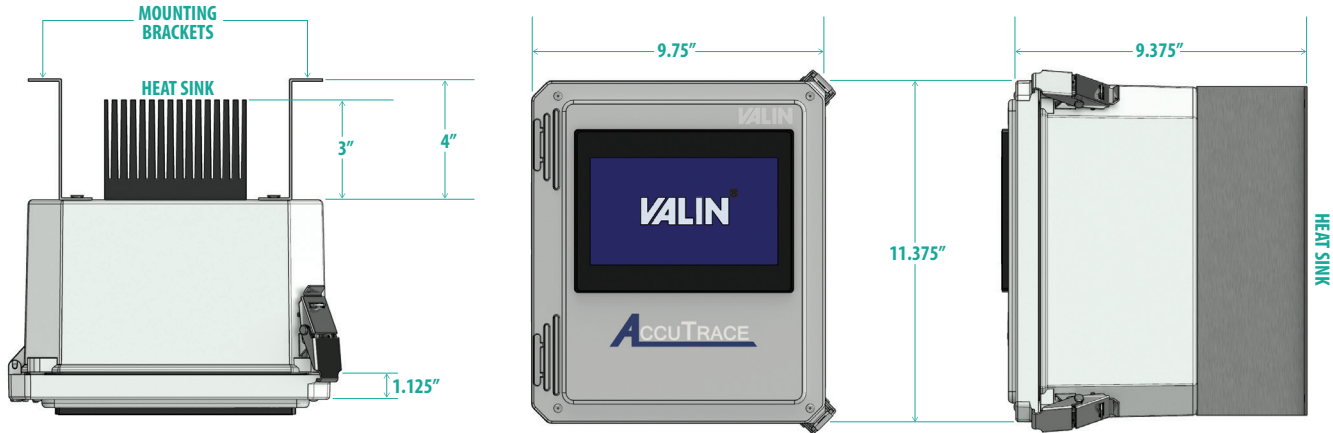


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DIMENSIONS



ORDERING INFORMATION

To Order - Complete the Model Number using the Matrix Provided.

Model Product Description

AC Valin's AccuTrace single and dual loop controller is designed to control heat trace for the most challenging applications. The panel can be used for either 1 or 2 loops of control and is rated for hazardous locations (C1D2, groups B, C, and D). The panel can accept voltages from 100-277VAC with a NEMA 4X enclosure- either fiberglass or 316 SS. The 7" color touchscreen provides a wealth of information, including power consumption, amp levels, and process parameters such as set point and current temperature. The unit is UL listed and rated down to -4 F and up to 104 F and has built in 40 amp Solid State Relays, and includes advanced soft start and PID algorithms. Other common features include alarm outputs, digital communications, and ground fault equipment protection breakers. Mounting brackets included.

CODE	NUMBER OF CIRCUITS
1	1 Circuit, UL/cUL
2	2 Circuits, UL/cUL

CODE	COMMUNICATIONS
0	ModBus RTU/ RS 485/ TCP/Ethernet

CODE	ENCLOSURE	ENCLOSURE SIZE H X W X D, In (cm)
0	NEMA 4X Fiberglass	10" x 8" x 6" (26 x 21 x 15) (Heat sink adds 3" to depth)
1	NEMA 4X 316 SS	12" x 10" x 6" (30 x 26 x 15) (Heat sink adds 3" to depth)

CODE	ADD TO COMPLETE MODEL NUMBER
0	

AC TYPICAL MODEL NUMBER

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