

TRACER 1 Digital Heat Trace Controller

The *TRACER 1* Digital Heat Trace Controller is a low cost simple, feature rich state of the art unit with many features including :

- One circuit control
- Programmable alarms can be routed to relays on temperature, current, loss of power, open heater, and probe fail.
- Programmable Ground Fault monitoring with multiple alarm and shut off options
- Timer Schedules can be set to nine pre-defined and 2 custom programs with weekday and weekend operation
- Fire protection mode
- Alarm output with program option to either open or close on Alarm.
- Dual Sensing Probes inputs can be programmed for High, Low, Average, Probe 1, Probe 2, or Ambient
- Programmable using Low Voltage micro USB port
- Suitable for Indoor or Outdoor Applications (unit employs NEMA 4X enclosure)
- Power Supply "Extreme Temp" rated at 90-308V, 50/60Hz
- USB port for software upgrade and system configuration / cloning using approved USB Memory stick.
- Operating Range -40°F to 131°F
- 2 /4 wire RS485 (Modbus) communications ports
- High reliability tactile switches for user interface
- Real Time Clock Calendar with battery backup
- Two PRTD 100Ω "385" Sensors interfaced to a 3 wire precision processor
- Two Relay Output rated at 30A @ 48-277 VAC disconnects both sides of line.
- Large, Bright 4 digit Red LED Display
- Alarm output mechanical relay with N.O. and N.C. output.
- Password Security and optional DIP Switch lock out.
- RS232 factory debugging port for field service use
- cUL approved for safe and reliable operation
- Includes one temperature probe with 10 foot leads, a gland for probe mounting and mounting hardware and fittings for heat trace.



Description:

The *TRACER 1* digital thermostat is a microprocessor based temperature control. It is used for freeze protection or process temperature maintenance of pipes or tanks protected by heat tracing products.

This thermostat can be used with Constant Wattage, Mineral Insulated or Self-Regulating heating cables.

This unit is designed to provide local temperature control and monitoring for heat traced pipes or tanks across a variety of industries and applications and will switch 30 amperes of current.

The *TRACER 1* provides easy programming of the temperature set point, GFEP set point, high and low temperature alarms, high and low current alarms, dead band, temperature units, RTCC Timer Scheduled functions and the alarm state through the front panel push buttons. LED lights are provided for indication of power to the unit, heater power on (load) and alarm status, set point display or actual temperature display.

Two solid state alarms are included for wiring to your building management system to indicate alarm status. This alarm may be set to open or close on all alarm conditions including loss of power, high or low temperature alarm GFEP Alarm and RTD failure.

The minimum operating ambient temperature is -40° F. This unit has programmable high and low temperature alarm set points from -80° F to 999° F.

The **TRACER 1** is enclosed in an IP66, NEMA 4X FG enclosure measuring 6.6" x 6.6" x 3.6".



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Specifications:

Input:

Sensor Number of sensors Sensor Configuration DIP Switch (Option) User Interface Line Voltage

Output

User Interface

RTCC

Power Switching Number of Circuits Output Rating Control Types Alarm Relay Power Loss Relay LED's (6) Audible Alarm USB Modbus Communications 3 wire PRTD, 100 ohm .00385Ω/Ω/°C +/-2°F 1 or 2 Probe 1, Probe 2, Average, Low, High, Ambient Lock out mode On or Off 5 Tactile Switches : MENU, ENTER,UP,DOWN, PROGRAM 100 to 277VAC 50/60Hz

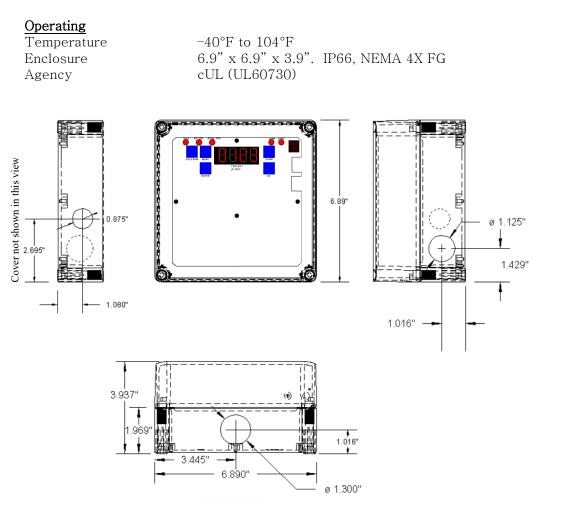
4 x 7 segment Red display .56" Normal Mode Display Toggles: Setpoint/Actual Real Time Clock Calendar for Auto-Schedule Mechanical Relays Switch Both Sides Of Line 1 30 Amps On/Off 1.8A, 120 / 240 VAC, 50/60Hz 1.8A, 80 VDC N.O., N.C., COM 1.8A, 120 / 240 VAC, 50/60Hz 1.8A, 80 VDC N.O., N.C., COM Set Temp, Act Temp, Alarm, Power, Load, Heartbeat Beeper Bootloader, Import via USB Memory Stick RS485 2/4 wire

Parametric Ranges [stored in non-volatile memory]

-80F to 999F (-62C to 537C) Set Point Dead band 2 to 100 High / Low Temp. Alarm -80F to 999F (-62C to 537C), OFF Alarm 1 Relay Normally Open or Normally Closed Alarm 2 Relay Normally Closed will be closed on loss of power Relay Mapping Alarms can be mapped to both, Alarm 1, Alarm 2, or none Unit Of Measure °C or °F Sensor Alarm Output 0-100% On or Manual Mode GFEP Latch On or Off GFEP Trip Normal or Trip Fire Protection Mode On or Off High / Low Current Alarm Off. 1 to 40A Auto Cycle / Self Test Off, 1-999 hours Ground Fault Alarm Off, 30 to 300mA Probe Probe 1, Probe 2, Low, High, Average, or Ambient Weekday Timer Off, Preset 1 to 9, Custom 1, Custom2 Weekend Timer Off, Preset 1 to 9, Custom 1, Custom2 Normal Temperature -80F to 999F (-62C to 537C) Economy Temperature -80F to 999F (-62C to 537C) Real Time Clock Calendar YY/MM/DD/HH/MM/SS Modbus Settings ID, Speed, Parity Key Click On or Off Reset To Defaults No, Reset Parameters Only, Boot Load, or Reset



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What's Included:

TRACER 1 Controller

Temperature Probe with 10 foot leads 1/2 NEMA 4 gland for sensor with NEMA 4 washer Junction Box Connection Kit for Heater Installation Operating Manual

Part Number	Model Number	Overlay	Customer Options
7300-13002-01	TBA	Standard	None
7300-13002-02	TBA	Custom	Custom parameters



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