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MONITORING SYSTEM

T3 PLUS



Thermalert®

T-SERIES MONITORS

The T3 Plus is an industrial monitor that provides a versatile temperature measurement system for the process industries. T3 Plus digital electronics are contained in a rugged, wall-mount enclosure. The T3 Plus interfaces with all T-Series sensing heads.

The T3 Plus monitor is easy-to-install near process equipment or in the control room. The large 4-digit LED display provides information about your process, while the user-selectable milliamp, thermocouple, or relay signals are tied into a closed-loop control system. Simultaneous RS-232 output provides data for process auditing or statistical process control.

Accurate temperature information for monitoring and control is simplified with the T3 Plus signal processing features, including peak/valley hold and averaging. Two adjustable setpoints with a common deadband provide alarms or process correction via dual relays for simple on/off control. Your choice of general purpose or process-specific T-Series Sensing Heads, including models for measuring thin film plastics, molten glass, and high temperature metals, complete your modular T3 Plus Monitoring System.

Highlights:

- Interfaces with all T-Series Regular and Sighting Heads
- Rugged, water-tight, surface-mount enclosure (NEMA-4, IP65)
- Large 4-digit LED display
- Adjustable emissivity
- User-switchable 4-20 mA, thermocouple outputs
- Adjustable dual setpoints and deadband controlling dual relays
- Simultaneous RS-232 output
- Signal Processing: Peak Hold, Valley Hold, Averaging
- Ambient temperature compensation
- External reset input

Raytek®

Thermalert 3 Plus

Measurement Specifications

Sensing Head Model:	Spectral Response:	Temperature Range:
LT (Low Temp)	8 to 14 µm	-20-870°C (0-1600°F)
MT (Medium Temp)	3.9 µm	200-1200°C (400-2200°F)
HT (High Temp)	2.2 µm	400-3000°C (800-5400°F)
1MA, 1MB, 1MC, 1MD, 1ME	1.0 µm	500-3000°C (930-5400°F)
G5 (Glass)	5.0 µm	250-1650°C (500-3000°F)
P3 (Plastics)	3.43 µm	30-340°C (80-650°F)
P7 (Plastics)	7.9 µm	10-340°C (50-650°F)

Accuracy[1] (Monitor and Sensing Head):

Sensing Head Model:	
LT, MT, HT, G5	±1% of measured value or ±1°C (1.5°F), whichever is greater
P3	±4°C (6.5°F), to 65°C (149°F) ±2°C (3°F), from 66 to 93°C (150 to 199°F) ±1% of target, from 94 to 340 °C (200 to 650°F)
P7	±3°C (5°F), to 65°C (149°F) ±2°C (3°F), from 66 to 93°C (150 to 199°F) ±1% of target, from 94 to 340 °C (200 to 650°F)
1MA	±0.75% of full scale, ±1 digit °C or °F
1MB, 1MC, 1MD, 1ME	±0.5% of full scale, ±1 digit °C or °F

Repeatability:	
LT, MT, HT, G5, P3, P7	±0.5% of measured value or ±1 digit °C or °F
1M	±0.25% of measured value or ±1 digit °C or °F
Response Time (95%):	
LT, MT, HT, G5, P7	370 mSec
P3	2 sec
1M	100 mSec
Emissivity	0.1 to 1.0 digitally adjusted
Signal Processing	Peak, valley hold (up to 998 sec, 999=infinite hold) Variable averaging filter (up to 60 sec) T-ambient: fixed background ambient temperature compensation

[1] Accuracy applies @23°C ±5°C (73°F ±9°F)

Electrical Specifications

Outputs	User-selectable Thermocouple output (sensing head specific, either J, K, N or K, R, S) or Current output (sensing head specific, 4-20 mA, 0-20 mA subranges) (see tables below) Two adjustable setpoints One adjustable deadband, 0.1 to 50% around setpoint Two SPDT contact closures (NO/NC) RS-232 one-way continuous output string
Power Supply	12/24 VDC, 300 mA or nominal 12 VAC, 50-60 Hz, 575 mA

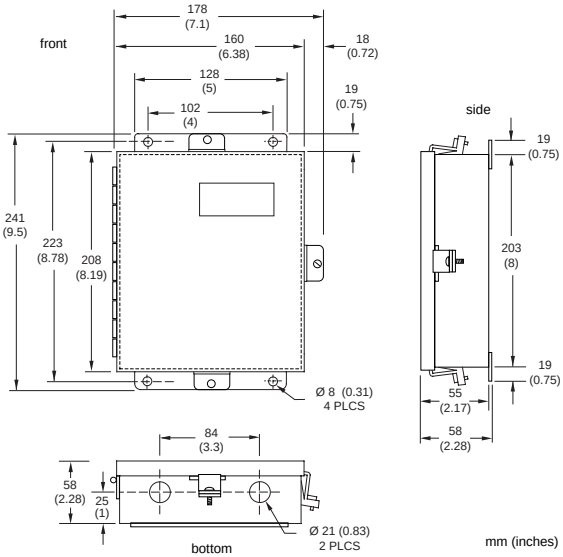
General Specifications

Environmental Rating	NEMA-4 (IEC 529, IP 65)
Ambient Temperature Range	0 to 50°C (32 to 120°F)
Relative Humidity	10 to 95%, non-condensing
Display	4-digit, 7 segment LED display, °C/°F selectable

Accessories / Options

- 110/220 VAC to 12 VAC transformer
- 110/220 VAC to 12 VDC power supply
- Quick release clamps on electronics box

Dimensions



Current Output Temperature Ranges

Contact Raytek or see manual for output specifications for 1M sensing heads.

LT	MT	HT	G5	P3	P7
0-100°C 0-200°F	200-500°C 400-1000°F	400-1000°C 800-2000°F	260-500°C 500-1000°F	30-150°C 80-300°F	10-100°C 50-200°F
0-200°C 0-400°F	200-1000°C 400-2000°F	500-1500°C 1000-3000°F	260-850°C 500-1500°F	120-260°C 250-500°F	10-210°C 50-350°F
0-400°C 0-800°F	500-1000°C 1000-2000°F	1000-2000°C 2000-4000°F	500-1000°C 1000-2000°F	200-340°C 400-650°F	100-300°C 200-600°F
0-800°C 0-1600°F	200-1200°C 400-2200°F	400-3000°C 800-5400°F	260-1650°C 500-3000°F	30-340°C 80-650°F	10-360°C 50-650°F

Thermocouple Output Temperature Ranges

Contact Raytek or see manual for output specifications for 1M sensing heads.

LT	MT	HT	G5	P3	P7
J: -20-760°C 0-1400°F	K: 200-1200°C 400-2200°F	K: 430-1350°C 800-2500°F	K: 250-1370°C 500-2500°F	J: 30-340°C 80-650°F	J: 10-360°C 50-650°F
K: -20-870°C 0-1600°F	R: 200-1200°C 400-2200°F	R: 430-1750°C 800-3210°F	R: 250-1650°C 500-3000°F	K: 30-340°C 80-650°F	K: 10-360°C 50-650°F
N: -20-870°C 0-1600°F	S: 200-1200°C 400-2200°F	S: 430-1750°C 800-3210°F	S: 250-1650°C 500-3000°F	N: 30-340°C 80-650°F	N: 10-360°C 50-650°F

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