



TH Series Temperature Controllers

TH units are specialized electronic temperature controllers manufactured to specific customer application.

TH units are specialized electronic temperature controllers manufactured to specific customer application.

The following units are available

MODEL	SPECIFICATIONS
TH1-Z21-1 Temperature Control System	Power: 120VAC Output: Isolated tab triac Load: 150W minimum resistive @ 120VAC Sensor: NTC thermistor 500Kohm @ 25° C (Use P/N 223-40050) Range: 300 to 460° F Control: On/off Sensor fault protection: Turns off if sensor opens or shorts Environment: -20 to +80° C
TH1-Z26-14 Temperature Controller	Power: 120VAC Output: Isolated tab triac Load: 300W maximum resistive @ 120VAC Sensor: NTC thermistor 500Kohm @ 25° C (Use P/N 223-40041) Range: 200 to 400° F Control: on/off Environment: 0 to +45° C Other: 2-way tab adaptors supplied allow both load and load lamp to be connected simultaneously
TH1-Z28-1 Blower Controller	Power: 120VAC Output: Shaded pole blower motor 4.75A max Load voltage: Adjustable 115 and 50VAC @ nominal line voltage Sensor: Thermostat Control: on/off Remote shutdown: Contact closure starts blower. Open contact stops blower Summer switch: Full CCW rotation of control knob overrides control circuit and allows blower to operate continuously at full speed
TH1-Z49-1 Relay Output	Power: 12VDC Output: 10A SPST relay Control: On/off 1° F hysteresis Sensor: NTC thermistor 30Kohm @ 25° C Range: 125 to 350° F Set pot: Remote 10ohm with local trim to calibrate controller to direct reading dial Sensor fault protection: Control output de-energizes if sensor opens or shorts Set point accuracy: ± 5% of direct reading dial span Stability: ± 1° F Environment: 32 to +150° F
TH2-Z7-18 Two-Output Controller (Grain Dryer)	Power: 120VAC 50/60Hz Outputs: 3A @ 120VAC Control: On/off, 1° F hysteresis Set Point: Remote set pot 1Kohm Harness Assembly (P/N 220-20028) Differential: Adjustable differential between the two outputs down to zero (Factory set at zero) Dead band: Field adjustment of high output to low output from 0 to 10° F Range: 80 to 150° F
TH3-Z10-2 3-Point Temperature Controller	Power: 28VAC Output: 15mA Load: SSR Sensor: Pt RTD 100ohm Range: 200 to 400° F Control: Proportioning Set point stability: ± 0.5° F Sensor fault protection: Turns off if sensor opens or shorts Alarm: High and low alarms to track and switch @ 2° F above and below the set point Alarm output: Drives 3.6V 30mA LED with built in current limiting resistor Environment: 80 to +150° F Output lamp: PC mounted LED indicates when control output is on
TH3-Z11-100 Three Output Temperature Controller System	Power: 28VDC Output: 20mA max on all three outputs Control: Proportioning Range: 80 to 180° F Calibration point: 130° F (mid range) Alarm points: High alarm fixed at 15° F ± 1° F above set point. Low alarm fixed at 5° F ± 1° F below set point. Alarm output modes: Outputs turn off at respective points Sensor: Balco RTD 676ohm @ 77° F Size: 2.75 x 2.5in (PC card) Mounting: 4 each 1.5in standoffs on 2.25 x 2.5 centers Terminals: ¼ fast on. 3-pin connector for remote pot
TH3-Z67-1 Three Point Temp Switch	Power: 24VAC Outputs: One 3A relay SPST @ 120VAC, Two 1A relay SPST @ 24VAC, Range: Output 1: 50-200° F, Output 2: 7-position selector 115 to 205° F, Output 3: 5° F Accuracy: ± 4° F of span Control: On/off Sensor: NTC thermistor 10K ohm @ 77° F Sensor protection: Sensor open or short will de-energize relay outputs Signal output: 0-2.0VDC Process meter supply: 5VDC @ 200mA

Quantem Corporation

1457 Lower Ferry Road, Trenton, NJ 08618 Telephone 609-883-9191, Fax 609-883-9879. www.quantemcorp.com

Bulletin #TH/9/2002
Printed in USA