

TC 1818a

Control and Monitoring Module

Product Specifications

Application . . .

Electric Heat Tracing Control and Monitoring Controls 18 Circuits With up to 18 RTD Inputs

The TC 1818a is a multicircuit microprocessor-based temperature control and monitoring module developed specifically for heat tracing. The unit provides control and monitoring capabilities via digital information display for a maximum of 18 heat tracing circuits. The module can be configured for either process sensing control (with an RTD for each circuit) or ambient sensing control (with a user's choice of one or two RTD inputs).

As a modular unit, the TC 1818a is typically located within an enclosure suitable for the application. For maximum versatility, multiple modules can be installed in a common enclosure. Individual six-point sensor modules handle input to and output from the TC 1818a via ribbon cable connectors. Up to three input and three output modules can be connected to each TC 1818a.



Ratings/Specifications . . .

Control and monitoring capacity . . . 18 heat tracing circuits
(up to 30 amps each)
Module supply voltages 110-120 or 208-240 Vac
Controlled output voltages 110-480 Vac
Power consumption 40 watts
Module operating ambient -40°F to 140°F
(-40°C to 60°C)
Maximum storage ambient -158°F (70°C)
Data retention nonvolatile EEPROM
Power clamp function programmable from 20% to 100%
Temperature input up to 18 3-wire platinum 100 Ω RTDs
Temperature control range -40°F to 932°F
or -40°C to 500°C
Control band programmable in increments of 1 degree
Module dimensions (HxWxD) 4.5" x 19" x 7.5"
(114 x 482 x 190 mm)
High operating current alarm 1.0 to 30.0 amps
Low operating current alarm 0.0 to 30.0 amps
Ground leakage alarm/trip 30 to 150 mA
(in 1 mA increments)
Alarm relay AC only, rated @ 1-amp resistive
(110-120 or 208-240 Vac)
Self-test frequency programmable from 2 to 99 hours
Communication Modbus ASCII via RS-485 port

Product Features . . .

- Real time data for:
- Temperature
 - Heater current
 - Ground leakage current
- Stored data for:
- Highest temperature encountered
 - Lowest temperature encountered
- Alarm information for:
- Low temperature
 - High temperature
 - Low heater current
 - High heater current
 - Ground leakage current
 - Damaged RTD sensor(s)



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Tc 1818a Troubleshooting Manual**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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