

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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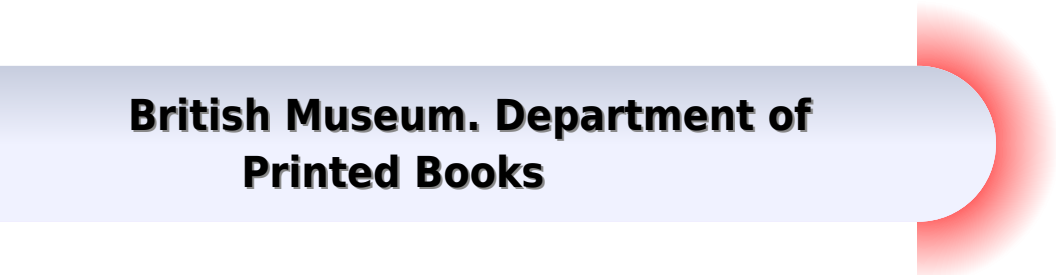
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Table of Contents Tc 1818a Troubleshooting Manual

1. Understanding the eBook Tc 1818a Troubleshooting Manual
 - The Rise of Digital Reading Tc 1818a Troubleshooting Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Tc 1818a Troubleshooting Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Tc 1818a Troubleshooting Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Tc 1818a Troubleshooting Manual
 - Personalized Recommendations
 - Tc 1818a Troubleshooting Manual User Reviews and Ratings
 - Tc 1818a Troubleshooting Manual and Bestseller Lists
5. Accessing Tc 1818a Troubleshooting Manual Free and Paid eBooks
 - Tc 1818a Troubleshooting Manual Public Domain eBooks
 - Tc 1818a Troubleshooting Manual eBook Subscription Services

- Tc 1818a Troubleshooting Manual Budget-Friendly Options
- 6. Navigating Tc 1818a Troubleshooting Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Tc 1818a Troubleshooting Manual Compatibility with Devices
 - Tc 1818a Troubleshooting Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Tc 1818a Troubleshooting Manual
 - Highlighting and Note-Taking Tc 1818a Troubleshooting Manual
 - Interactive Elements Tc 1818a Troubleshooting Manual
- 8. Staying Engaged with Tc 1818a Troubleshooting Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Tc 1818a Troubleshooting Manual
- 9. Balancing eBooks and Physical Books Tc 1818a Troubleshooting Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Tc 1818a Troubleshooting Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Tc 1818a Troubleshooting Manual
 - Setting Reading Goals Tc 1818a Troubleshooting Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Tc 1818a Troubleshooting Manual
 - Fact-Checking eBook Content of Tc 1818a Troubleshooting Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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web the block diagram of a linear power supply is as shown in the following figure in spite of the above disadvantages linear power supplies are widely used in low noise amplifiers test equipment control circuits in addition they

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web the figure given below represents the functional block diagram of smps initially the unregulated ac input signal from the source is provided to the input rectifier and filter circuit here the ac input signal is rectified to generate a dc signal and further smoothened to remove high frequency noise component from it

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web smps regulates the output power by varying the on to off time using minimum voltage so that efficiency is very high compared to the linear power supply what is inside a smps fig 1 simple block diagram showing different function of smps

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