

DIGITAL TEMPERATURE CONTROLLER

INSTRUCTION MANUAL

Please Carefully read all the instructions in this manual.
Please place this manual in a convenient location for easy reference.

SPECIFICATION

- Power Supply: 85~265VAC 50/60Hz, 24VDC or 24VAC (available on request)
- Input: Thermocouple(K, E, J, N, Wc3, Ra25, S, T, R, B,) Pt100(Up to 800 °C)
Voltage and Current: 0~5VDC, 0~10VDC, 0~50mV, 4~20mV, 0~20mA, 2~10VDC, 1~5VDC, 4~20mA
- Display: Dual line 4 digits LED display
- Output: RELAY/SSR DRY/VE/4~20mA/0~5VDC/0~10VDC/1~5VDC(specify when order)
- Power consumption: 50A maximum
- Control method: PID, ON/OFF(P+O), Time proportional control(p+O, O+O)
- Measuring accuracy: 0.2%F.S
- Decimal points for all input signals: 0.1 resolution for thermocouple, 0.1 resolution for RTD, 0.001 for analog input
- Modbus RTU/RS-485 communication, 5V1PV 4~20mA Rs-485-transmission
- Output can gradient and action for analog output such as 4~20mA only
- Controller can display based on Centigrade or Fahrenheit, switchable between each other.
- Alarm Standby function integrated
- Power up overshoot suppression function integrated.
- Analog output buffer function
- ON/OFF Control: Set P+O, O+O will be changed as on/off control. Check manual's 1 parameter P+ . Position difference is HYS, when heating (PV>SV, OUT stop, when PV<SV-HYS, OUT start, fitting for OUT1. When Cooling (PV>SV+HYS, output start, when PV<SV-output stop.
- When analog signal output, can using output buffer function when in some special control position, which can make output more stable.
Check manual (0.1 level 2 SUFF parameter, and 0.3 level 2: bDr parameter)

1. Unique Features

Power Up Overshoot Suppression

The overshoot is common when controller just power up, and the PV is getting closer to SV, this controller offers a useful features for application where the overshoot should be tolerated



The Figure 1 shows significant overshoot after PV reaches to SV, this is harmful to some of system, MTA offers a feature to suppress the overshoot

LED display and indicator built together on one PCB board



The LED display and LED indicators was built as one panel model of controller with their LED display and LED indicator installed separately, the chance of the malfunction is high. This controller with all the display and indicator units built together on board, makes it easier to install and easy to test with higher reliability.

PV/SV Re-transmission(Optional function)



The PV or SV value can be re-transmitted as analog signal 0~5VDC, 0~10VDC, 4~20mA, and the re-transmission signal can be feed to recorder or digital display

C or F display selectable



This controller offers display based on Celsius and Fahrenheit, can the display be switchable between C and F.

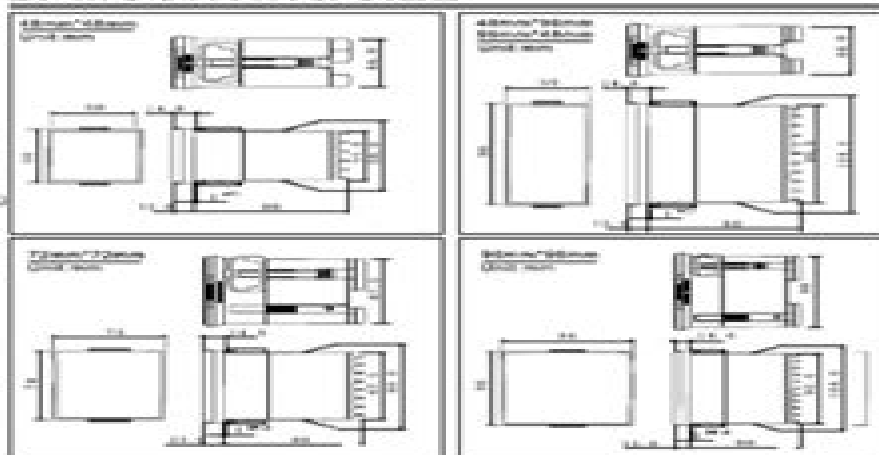
Decimal points for all input signals

The decimal points display is available for all input signals. For TC and RTD sensors, the resolution is 0.1, for analog signal, the resolution is 0.001.

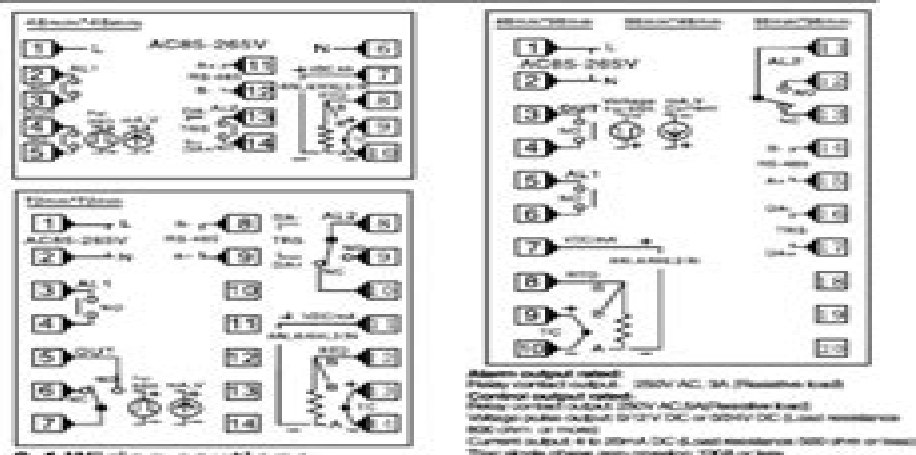
Output restriction for analog output

Controller offers a function when output is analog such as 4~20mA, to maintain a stable system, the output changing rate can be restrained in a certain range, for example, if the output changes from 4mA to 16mA in 1 second, the changing rate is 4mA/S, the changing rate can be restrained within 5%, means in the next seconds, the output only changes between 4mA*(1-5%) to 4mA*(1+5%), which is 3.8mA to 4.2mA.

2. MOUNTING SIZE



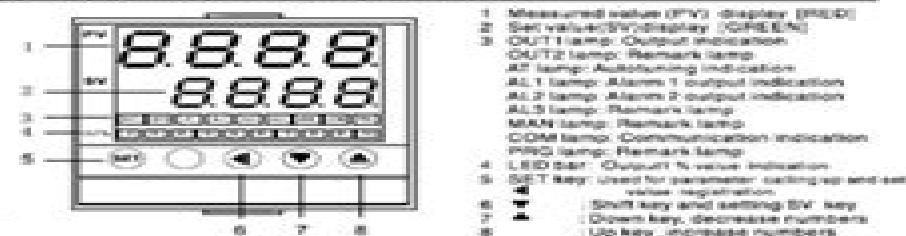
3. WIRING



3.1 Wiring cautions



4. PANEL DESCRIPTION



- Measured value (PV) display (RED)
- Set value (SV) display (GREEN)
- OUT1 lamp: Output indication
OUT2 lamp: Remark lamp
AL lamp: Auto-tuning indication
AL1 lamp: Alarm 1 output indication
AL2 lamp: Alarm 2 output indication
AL3 lamp: Remark lamp
MAN lamp: Remark lamp
COM lamp: Communication indication
PID lamp: Remark lamp
- LED bar: Output 1 % value indication
- SET key: used for parameter setting up and set value registration
- Shift key and setting SV key
- Down key: decrease numbers
- Up key: increase numbers

Mta Supervisor Manual 3608

Ying Liu



Mta Supervisor Manual 3608:

Mta Supervisor Manual 3608 Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Mta Supervisor Manual 3608**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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Table of Contents Mta Supervisor Manual 3608

1. Understanding the eBook Mta Supervisor Manual 3608
 - The Rise of Digital Reading Mta Supervisor Manual 3608
 - Advantages of eBooks Over Traditional Books
2. Identifying Mta Supervisor Manual 3608
 - 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 Mta Supervisor Manual 3608
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mta Supervisor Manual 3608
 - Personalized Recommendations
 - Mta Supervisor Manual 3608 User Reviews and Ratings
 - Mta Supervisor Manual 3608 and Bestseller Lists

5. Accessing Mta Supervisor Manual 3608 Free and Paid eBooks
 - Mta Supervisor Manual 3608 Public Domain eBooks
 - Mta Supervisor Manual 3608 eBook Subscription Services
 - Mta Supervisor Manual 3608 Budget-Friendly Options
6. Navigating Mta Supervisor Manual 3608 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mta Supervisor Manual 3608 Compatibility with Devices
 - Mta Supervisor Manual 3608 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mta Supervisor Manual 3608
 - Highlighting and Note-Taking Mta Supervisor Manual 3608
 - Interactive Elements Mta Supervisor Manual 3608
8. Staying Engaged with Mta Supervisor Manual 3608
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mta Supervisor Manual 3608
9. Balancing eBooks and Physical Books Mta Supervisor Manual 3608
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mta Supervisor Manual 3608
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mta Supervisor Manual 3608
 - Setting Reading Goals Mta Supervisor Manual 3608
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mta Supervisor Manual 3608
 - Fact-Checking eBook Content of Mta Supervisor Manual 3608
 - 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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