



SPECIFICATIONS

Display:
3-Digit, 7-segment digital display
LED Indicators:
ON: Control output ON
OFF: Control output OFF

Keys:
3 keys for digital setting

INPUT SPECIFICATIONS
Input Signal:
Thermocouple (J,K,T,E,B,S) / RTD (Pt100)

Measuring time:
10ms

Input error (max):
±0.2 or ±0.5 °C

Resolution:
Fixed 1° resolution

Temperature unit:
°C / °F selectable

Isolation Accuracy:
For TC inputs: ±0.5% of FS at 25°C
For RTD inputs: ±0.5% of FS at 25°C
For RTD inputs: ±0.5% of FS at 25°C

FUNCTIONAL SPECIFICATIONS
Control Method:
(1) PID control with auto-tuning
(2) ON/OFF control

Proportional Band (PB):
1 to 400%

Integral Time (I):
0.1 to 99.9 min

Derivative Time (D):
0.1 to 99.9 min

Control Time:
0.1 to 99.9 min

Hyseteresis Width:
0.1 to 99.9%

Manual Reset Value:
-99.9 to 99.9

CONTROL OUTPUT: Relay or SSR
(Close Output at 1 sec)
Relay: power capacity 10A/250VAC (resistive)
SSR: power capacity 10A/250VAC (resistive)
Relay contact (SPST) type: NO/NC, C (common)
SSR: power capacity 10A/250VAC (resistive)
SSR Drive Output (Voltage Pulses):
10V DC, 50 mA

* Not applicable for TC100A, TC200A, TC300A

POWER SUPPLY
Supply Voltage:
100 to 270V AC (AC: 50 or 60Hz)
(OPTIONAL: 24V AC/DC)
Power Consumption:
100 mA (max) (AC)
Temperature:
Operating: -10 to 50°C (Storage: -20 to 70°C)
Humidity (non-condensing):
90% RH
Material:
TC100A/TC200A: 100-pin
TC200A/TC300A: 100-pin
TC300A/TC400A: 100-pin

SAFETY PRECAUTIONS

All safety-related instructions, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the equipment.
If the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment.

Read completely instructions prior to installation and operation of the unit.

WARNING: Risk of electric shock.

WIRING GUIDELINES

WARNING:

- To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring (unpowered). Do not touch the terminals while power is being supplied.
- To eliminate electromagnetic interference, use short wire with adequate shielding and separate signal lines, be sure to use shielded wires and keep them away from each other.
- Cable used for connection to power source must have a cross section of "mm²" or greater. These wires shall have insulation capacity made of at least 1 kV.
- When extending the thermocouple lead wires, always use thermocouple compensation wires for wiring. For the RTD type, use a wiring material with a small heat resistance (SS) less than 1 mm and no resistance capacity (SS) less than 1 mm.
- A better anti-static effect can be expected by using standard power supply cables for the instrument.

MAINTENANCE

- The equipment should be cleaned regularly to avoid the risk of fire.
- Clean the equipment with a clean soft cloth. Do not use detergent or any other cleaning agent.

INSTALLATION GUIDELINES

- This equipment, being built in Japan, normally becomes a part of the electrical system. Do not use the terminal as a power source for other equipment. The terminal is not to be used as a power source for other equipment.
- Do not allow pieces of metal, wire clippers, or fine metallic filaments from installation to enter the product or allow it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.

- Circuit breaker or main switch must be installed between power source and supply terminals to facilitate power ON or OFF function. However, this switch or breaker must be installed in a convenient position normally accessible to the operator.
- Use and store the temperature controller within the specified ambient temperature and humidity ranges or otherwise in the manual.

CAUTION

- When powering up for the first time, disconnect the output connections.
- Use caution! The unit is normally supplied without a power switch and fuses. Make wiring so that the fuse is placed between the main power supply switch and the controller. (2-pin lead wire: 100V AC, 1A or 2A; 24V AC, 1A or 2A; 24V DC, 1A or 2A).
- Since this is a built-in type equipment, please place it in a safe place. Its output terminals get connected to heat exchanger equipment. Heat exchanger equipment must comply with local safety regulations. (For example, for the RTD type, use a wiring material with a small heat resistance (SS) less than 1 mm and no resistance capacity (SS) less than 1 mm).
- Thermal disruption of equipment is not through ventilation holes provided on chassis of equipment. Such ventilation holes shall not be obstructed and fan lead to a safety hazard.
- The output terminals shall be strictly located to the manufacturer specified values range.

MECHANICAL INSTALLATION

Model		TC100A		TC200A		TC300A		TC400A		TC500A		TC600A		TC700A		TC800A		TC900A		TC1000A		TC1100A		TC1200A		TC1300A		TC1400A		TC1500A		TC1600A		TC1700A		TC1800A		TC1900A		TC2000A		TC2100A		TC2200A		TC2300A		TC2400A		TC2500A		TC2600A		TC2700A		TC2800A		TC2900A		TC3000A		TC3100A		TC3200A		TC3300A		TC3400A		TC3500A		TC3600A		TC3700A		TC3800A		TC3900A		TC4000A		TC4100A		TC4200A		TC4300A		TC4400A		TC4500A		TC4600A		TC4700A		TC4800A		TC4900A		TC5000A		TC5100A		TC5200A		TC5300A		TC5400A		TC5500A		TC5600A		TC5700A		TC5800A		TC5900A		TC6000A		TC6100A		TC6200A		TC6300A		TC6400A		TC6500A		TC6600A		TC6700A		TC6800A		TC6900A		TC7000A		TC7100A		TC7200A		TC7300A		TC7400A		TC7500A		TC7600A		TC7700A		TC7800A		TC7900A		TC8000A		TC8100A		TC8200A		TC8300A		TC8400A		TC8500A		TC8600A		TC8700A		TC8800A		TC8900A		TC9000A		TC9100A		TC9200A		TC9300A		TC9400A		TC9500A		TC9600A		TC9700A		TC9800A		TC9900A		TC10000A		TC10100A		TC10200A		TC10300A		TC10400A		TC10500A		TC10600A		TC10700A		TC10800A		TC10900A		TC11000A		TC11100A		TC11200A		TC11300A		TC11400A		TC11500A		TC11600A		TC11700A		TC11800A		TC11900A		TC12000A		TC12100A		TC12200A		TC12300A		TC12400A		TC12500A		TC12600A		TC12700A		TC12800A		TC12900A		TC13000A		TC13100A		TC13200A		TC13300A		TC13400A		TC13500A		TC13600A		TC13700A		TC13800A		TC13900A		TC14000A		TC14100A		TC14200A		TC14300A		TC14400A		TC14500A		TC14600A		TC14700A		TC14800A		TC14900A		TC15000A		TC15100A		TC15200A		TC15300A		TC15400A		TC15500A		TC15600A		TC15700A		TC15800A		TC15900A		TC16000A		TC16100A		TC16200A		TC16300A		TC16400A		TC16500A		TC16600A		TC16700A		TC16800A		TC16900A		TC17000A		TC17100A		TC17200A		TC17300A		TC17400A		TC17500A		TC17600A		TC17700A		TC17800A		TC17900A		TC18000A		TC18100A		TC18200A		TC18300A		TC18400A		TC18500A		TC18600A		TC18700A		TC18800A		TC18900A		TC19000A		TC19100A		TC19200A		TC19300A		TC19400A		TC19500A		TC19600A		TC19700A		TC19800A		TC19900A		TC20000A		TC20100A		TC20200A		TC20300A		TC20400A		TC20500A		TC20600A		TC20700A		TC20800A		TC20900A		TC21000A		TC21100A		TC21200A		TC21300A		TC21400A		TC21500A		TC21600A		TC21700A		TC21800A		TC21900A		TC22000A		TC22100A		TC22200A		TC22300A		TC22400A		TC22500A		TC22600A		TC22700A		TC22800A		TC22900A		TC23000A		TC23100A		TC23200A		TC23300A		TC23400A		TC23500A		TC23600A		TC23700A		TC23800A		TC23900A		TC24000A		TC24100A		TC24200A		TC24300A		TC24400A		TC24500A		TC24600A		TC24700A		TC24800A		TC24900A		TC25000A		TC25100A		TC25200A		TC25300A		TC25400A		TC25500A		TC25600A		TC25700A		TC25800A		TC25900A		TC26000A		TC26100A		TC26200A		TC26300A		TC26400A		TC26500A		TC26600A		TC26700A		TC26800A		TC26900A		TC27000A		TC27100A		TC27200A		TC27300A		TC27400A		TC27500A		TC27600A		TC27700A		TC27800A		TC27900A		TC28000A		TC28100A		TC28200A		TC28300A		TC28400A		TC28500A		TC28600A		TC28700A		TC28800A		TC28900A		TC29000A		TC29100A		TC29200A		TC29300A		TC29400A		TC29500A		TC29600A		TC29700A		TC29800A		TC29900A		TC30000A		TC30100A		TC30200A		TC30300A		TC30400A		TC30500A		TC30600A		TC30700A		TC30800A		TC30900A		TC31000A		TC31100A		TC31200A		TC31300A		TC31400A		TC31500A		TC31600A		TC31700A		TC31800A		TC31900A		TC32000A		TC32100A		TC32200A		TC32300A		TC32400A		TC32500A		TC32600A		TC32700A		TC32800A		TC32900A		TC33000A		TC33100A		TC33200A		TC33300A		TC33400A		TC33500A		TC33600A		TC33700A		TC33800A		TC33900A		TC34000A		TC34100A		TC34200A		TC34300A		TC34400A		TC34500A		TC34600A		TC34700A		TC34800A		TC34900A		TC35000A		TC35100A		TC35200A		TC35300A		TC35400A		TC35500A		TC35600A		TC35700A		TC35800A		TC35900A		TC36000A		TC36100A		TC36200A		TC36300A		TC36400A		TC36500A		TC36600A		TC36700A		TC36800A		TC36900A		TC37000A		TC37100A		TC37200A		TC37300A		TC37400A		TC37500A		TC37600A		TC37700A		TC37800A		TC37900A		TC38000A		TC38100A		TC38200A		TC38300A		TC38400A		TC38500A		TC38600A		TC38700A		TC38800A		TC38900A		TC39000A		TC39100A		TC39200A		TC39300A		TC39400A		TC39500A		TC39600A		TC39700A		TC39800A		TC39900A		TC40000A		TC40100A		TC40200A		TC40300A		TC40400A		TC40500A		TC40600A		TC40700A		TC40800A		TC40900A		TC41000A		TC41100A		TC41200A		TC41300A		TC41400A		TC41500A		TC41600A		TC41700A		TC41800A		TC41900A		TC42000A		TC42100A		TC42200A		TC42300A		TC42400A		TC42500A		TC42600A		TC42700A		TC42800A		TC42900A		TC43000A		TC43100A		TC43200A		TC43300A		TC43400A		TC43500A		TC43600A		TC43700A		TC43800A		TC43900A		TC44000A		TC44100A		TC44200A		TC44300A		TC44400A		TC44500A		TC44600A		TC44700A		TC44800A		TC44900A		TC45000A		TC45100A		TC45200A		TC45300A		TC45400A		TC45500A		TC45600A		TC45700A		TC45800A		TC45900A		TC46000A		TC46100A		TC46200A		TC46300A		TC46400A		TC46500A		TC46600A		TC46700A		TC46800A		TC46900A		TC47000A		TC47100A		TC47200A		TC47300A		TC47400A		TC47500A		TC47600A		TC47700A		TC47800A		TC47900A		TC48000A		TC48100A		TC48200A		TC48300A		TC48400A		TC48500A		TC48600A		TC48700A		TC48800A		TC48900A		TC49000A		TC49100A		TC49200A		TC49300A		TC49400A		TC49500A		TC49600A		TC49700A		TC49800A		TC49900A		TC50000A		TC50100A		TC50200A		TC50300A		TC50400A		TC50500A		TC50600A		TC50700A		TC50800A		TC50900A		TC51000A		T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Mcvoice Ls 303 User Guide

D Keegan



Mcvoice Ls 303 User Guide:

Reviewing **Mcvoice Ls 303 User Guide**: Unlocking the Spellbinding Force of Linguistics

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 "**Mcvoice Ls 303 User Guide**," 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 into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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