



SPECIFICATIONS

Display
3-Digit, 7-segment digital display
LED Indicators
ON: Control output ON
Batt: 3-batt for digital setting

INPUT SPECIFICATIONS
Input Signal
Thermocouple (LX1, LX2, LX3) / RTD (PT100)
Measuring time
10 sec
Input error (PTC)
0.2 to 0.5 deg
Resolution
Fixed 0.1 resolution
Temperature unit
°C / °F selectable

Installation Accuracy
For TC inputs: 0.2%, of FS at 25°C
For R & B inputs: 0.2%, of FS at 25°C
For RTD inputs: 0.1%, 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)

0.5 to 99.9 sec

Derivative Time (D)

0 to 99.9 sec

Control Time

0.1 to 99.9 sec

Hyseteresis Width

0 to 10.0%

Manual Reset Value

-0.9 to 15.0°

CONTROL OUTPUT / Relay or SSR

(Circuit Output at 1 sec)
Relay: power capacity 100 W (TC100A, TC100B, TC100C)
TC100B only: 100 W (TC100B only)
Relay output (SPST) type: TC100A, TC100B, TC100C
TC100B only: 100 W (TC100B only)
SSR: Solid State Relay (Voltage Triac) /
100 W (TC100A, TC100B, TC100C)

* Not applicable for TC100A, TC100B, TC100C.

POWER SUPPLY
Supply Voltage
100 to 270V AC (AC: 50 or 60Hz)
(OPTIONAL: 24V AC/DC)
Power Consumption
100 mA (BATT ON)
Temperature
Operating: 0 to 50°C (Storage: -20 to 70°C)
Humidity (non-condensing)
90% RH
Weight
TC100A/TC100B: 120 g (gross)
TC100B/TC100C: 150 g (gross)
TC100A/TC100C: 240 g (gross)

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 installing 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 (ungrounded). 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) (max. per line) and no resistance capacity (SS) (max. per line).
- 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 dust accumulation.
- Clean the equipment with a clean soft cloth. Do not use detergent, alcohol or any other cleaning agent.

INSTALLATION GUIDELINES

- This equipment, being built in Japan, normally requires a type of insulation (UL) for use in the U.S. The insulation do not remain accessible to the end user after installation or disassembly.
- Do not allow pieces of metal, wire clippers, or fine metallic filings 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 pole fuses from rating: 200V AC, 1 A for electric heater or 100V).
- Since this is a multi-type equipment, please refer to main control panel. Its output terminals get connected to heat source equipment should also comply with local (UL/ETL/CE) and other safety requirements like EMI/EMC (UL and ENEC) to be respectively.
- Thermal disruption of equipment is not through ventilation holes provided on chassis of equipment. Such ventilation holes shall not be obstructed as it can lead to a safety hazard.
- The output terminals shall be strictly located to the manufacturer specified voltage range.

MECHANICAL INSTALLATION

	TC100A	TC100B	TC100C	TC100D	TC100E	TC100F	TC100G
Overall Dimensions	52	52	54	45	4	55	45
Mounting Dimensions	73	73	55.7	47	4.5	55	45
Terminal Dimensions	48	48	73	55.5	4	55	45

- Prepare the panel output with proper dimensions as shown above.
- Remove the clamp from the controller and push the controller into the panel until it securely fits into the panel.
- The equipment in its installed state must not come in close proximity to any flammable materials, electric cables, steam, or other unwanted process by-products.
- Use the specified size of wiring terminals (UL & ENEC) to wire the terminal block. Tighten the screws on the terminal block using the tightening torque within the range of 1.2 Nm.
- Do not connect anything to unused terminals.

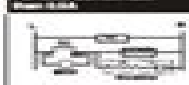
EMC Guidelines

- Use proper input power cables with shielded connections and good terminal force.
- Layout of connecting cables shall be away from any internal EMF source.

LOAD CONNECTIONS

- The service life of the output relay depends on the switching capacity and switching conditions. Consider the actual application conditions and use the product within the rated load and electrical service life.
- Although the relay output is rated at 10 amps it is always necessary to use an interrupting relay or contactor that will switch the load. This avoids damage to the controller in the event of a fault short developing on the power output circuit.
- Always use a separate fused supply for the "power load circuit" and do not take this from the line and neutral terminals supplying power to the controller.

For power source from 100V



For power source from 200V



ELECTRICAL PRECAUTIONS DURING USE
Electrical noise generated by switching of inductive loads can create momentary disruption, erratic display, fault up, data loss or permanent damage to the instrument.

- To reduce noise:
(1) Use of shield or electric screen leads as shown above, is recommended.
- Use separate shielded wires for inputs.

TERMINAL CONNECTIONS

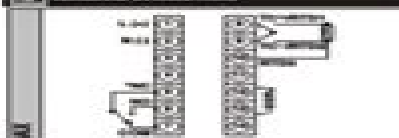


TC100 control cable only for TC100A/B/C

Control Output	Relay Output	SSR Drive Output
Measured Value Input	Thermocouple (LX1, LX2, LX3)	RTD (PT100)

For TC100A/TC100B/TC100C
For TC100E/TC100F/TC100G/TC100H/TC100I/TC100J/TC100K/TC100L/TC100M/TC100N/TC100O/TC100P/TC100Q/TC100R/TC100S/TC100T/TC100U/TC100V/TC100W/TC100X/TC100Y/TC100Z/TC100AA/TC100AB/TC100AC/TC100AD/TC100AE/TC100AF/TC100AG/TC100AH/TC100AI/TC100AJ/TC100AK/TC100AL/TC100AM/TC100AN/TC100AO/TC100AP/TC100AQ/TC100AR/TC100AS/TC100AT/TC100AU/TC100AV/TC100AW/TC100AX/TC100AY/TC100AZ/TC100BA/TC100BB/TC100BC/TC100BD/TC100BE/TC100BF/TC100BG/TC100BH/TC100BI/TC100BJ/TC100BK/TC100BL/TC100BM/TC100BN/TC100BO/TC100BP/TC100BQ/TC100BR/TC100BS/TC100BT/TC100BU/TC100BV/TC100BW/TC100BX/TC100BY/TC100BZ/TC100CA/TC100CB/TC100CC/TC100CD/TC100CE/TC100CF/TC100CG/TC100CH/TC100CI/TC100CJ/TC100CK/TC100CL/TC100CM/TC100CN/TC100CO/TC100CP/TC100CQ/TC100CR/TC100CS/TC100CT/TC100CU/TC100CV/TC100CW/TC100CX/TC100CY/TC100CZ/TC100DA/TC100DB/TC100DC/TC100DD/TC100DE/TC100DF/TC100DG/TC100DH/TC100DI/TC100DJ/TC100DK/TC100DL/TC100DM/TC100DN/TC100DO/TC100DP/TC100DQ/TC100DR/TC100DS/TC100DT/TC100DU/TC100DV/TC100DW/TC100DX/TC100DY/TC100DZ/TC100EA/TC100EB/TC100EC/TC100ED/TC100EE/TC100EF/TC100EG/TC100EH/TC100EI/TC100EJ/TC100EK/TC100EL/TC100EM/TC100EN/TC100EO/TC100EP/TC100EQ/TC100ER/TC100ES/TC100ET/TC100EU/TC100EV/TC100EW/TC100EX/TC100EY/TC100EZ/TC100FA/TC100FB/TC100FC/TC100FD/TC100FE/TC100FF/TC100FG/TC100FH/TC100FI/TC100FJ/TC100FK/TC100FL/TC100FM/TC100FN/TC100FO/TC100FP/TC100FQ/TC100FR/TC100FS/TC100FT/TC100FU/TC100FV/TC100FW/TC100FX/TC100FY/TC100FZ/TC100GA/TC100GB/TC100GC/TC100GD/TC100GE/TC100GF/TC100GG/TC100GH/TC100GI/TC100GJ/TC100GK/TC100GL/TC100GM/TC100GN/TC100GO/TC100GP/TC100GQ/TC100GR/TC100GS/TC100GT/TC100GU/TC100GV/TC100GW/TC100GX/TC100GY/TC100GZ/TC100HA/TC100HB/TC100HC/TC100HD/TC100HE/TC100HF/TC100HG/TC100HH/TC100HI/TC100HJ/TC100HK/TC100HL/TC100HM/TC100HN/TC100HO/TC100HP/TC100HQ/TC100HR/TC100HS/TC100HT/TC100HU/TC100HV/TC100HW/TC100HX/TC100HY/TC100HZ/TC100IA/TC100IB/TC100IC/TC100ID/TC100IE/TC100IF/TC100IG/TC100IH/TC100II/TC100IJ/TC100IK/TC100IL/TC100IM/TC100IN/TC100IO/TC100IP/TC100IQ/TC100IR/TC100IS/TC100IT/TC100IU/TC100IV/TC100IW/TC100IX/TC100IY/TC100IZ/TC100JA/TC100JB/TC100JC/TC100JD/TC100JE/TC100JF/TC100JG/TC100JH/TC100JI/TC100JJ/TC100JK/TC100JL/TC100JM/TC100JN/TC100JO/TC100JP/TC100JQ/TC100JR/TC100JS/TC100JT/TC100JU/TC100JV/TC100JW/TC100JX/TC100JY/TC100JZ/TC100KA/TC100KB/TC100KC/TC100KD/TC100KE/TC100KF/TC100KG/TC100KH/TC100KI/TC100KJ/TC100KK/TC100KL/TC100KM/TC100KN/TC100KO/TC100KP/TC100KQ/TC100KR/TC100KS/TC100KT/TC100KU/TC100KV/TC100KW/TC100KX/TC100KY/TC100KZ/TC100LA/TC100LB/TC100LC/TC100LD/TC100LE/TC100LF/TC100LG/TC100LH/TC100LI/TC100LJ/TC100LK/TC100LL/TC100LM/TC100LN/TC100LO/TC100LP/TC100LQ/TC100LR/TC100LS/TC100LT/TC100LU/TC100LV/TC100LW/TC100LX/TC100LY/TC100LZ/TC100MA/TC100MB/TC100MC/TC100MD/TC100ME/TC100MF/TC100MG/TC100MH/TC100MI/TC100MJ/TC100MK/TC100ML/TC100MM/TC100MN/TC100MO/TC100MP/TC100MQ/TC100MR/TC100MS/TC100MT/TC100MU/TC100MV/TC100MW/TC100MX/TC100MY/TC100MZ/TC100NA/TC100NB/TC100NC/TC100ND/TC100NE/TC100NF/TC100NG/TC100NH/TC100NI/TC100NJ/TC100NK/TC100NL/TC100NM/TC100NN/TC100NO/TC100NP/TC100NQ/TC100NR/TC100NS/TC100NT/TC100NU/TC100NV/TC100NW/TC100NX/TC100NY/TC100NZ/TC100OA/TC100OB/TC100OC/TC100OD/TC100OE/TC100OF/TC100OG/TC100OH/TC100OI/TC100OJ/TC100OK/TC100OL/TC100OM/TC100ON/TC100OO/TC100OP/TC100OQ/TC100OR/TC100OS/TC100OT/TC100OU/TC100OV/TC100OW/TC100OX/TC100OY/TC100OZ/TC100PA/TC100PB/TC100PC/TC100PD/TC100PE/TC100PF/TC100PG/TC100PH/TC100PI/TC100PJ/TC100PK/TC100PL/TC100PM/TC100PN/TC100PO/TC100PP/TC100PQ/TC100PR/TC100PS/TC100PT/TC100PU/TC100PV/TC100PW/TC100PX/TC100PY/TC100PZ/TC100QA/TC100QB/TC100QC/TC100QD/TC100QE/TC100QF/TC100QG/TC100QH/TC100QI/TC100QJ/TC100QK/TC100QL/TC100QM/TC100QN/TC100QO/TC100QP/TC100QQ/TC100QR/TC100QS/TC100QT/TC100QU/TC100QV/TC100QW/TC100QX/TC100QY/TC100QZ/TC100RA/TC100RB/TC100RC/TC100RD/TC100RE/TC100RF/TC100RG/TC100RH/TC100RI/TC100RJ/TC100RK/TC100RL/TC100RM/TC100RN/TC100RO/TC100RP/TC100RQ/TC100RR/TC100RS/TC100RT/TC100RU/TC100RV/TC100RW/TC100RX/TC100RY/TC100RZ/TC100SA/TC100SB/TC100SC/TC100SD/TC100SE/TC100SF/TC100SG/TC100SH/TC100SI/TC100SJ/TC100SK/TC100SL/TC100SM/TC100SN/TC100SO/TC100SP/TC100SQ/TC100SR/TC100SS/TC100ST/TC100SU/TC100SV/TC100SW/TC100SX/TC100SY/TC100SZ/TC100TA/TC100TB/TC100TC/TC100TD/TC100TE/TC100TF/TC100TG/TC100TH/TC100TI/TC100TJ/TC100TK/TC100TL/TC100TM/TC100TN/TC100TO/TC100TP/TC100TQ/TC100TR/TC100TS/TC100TT/TC100TU/TC100TV/TC100TW/TC100TX/TC100TY/TC100TZ/TC100UA/TC100UB/TC100UC/TC100UD/TC100UE/TC100UF/TC100UG/TC100UH/TC100UI/TC100UJ/TC100UK/TC100UL/TC100UM/TC100UN/TC100UO/TC100UP/TC100UQ/TC100UR/TC100US/TC100UT/TC100UU/TC100UV/TC100UW/TC100UX/TC100UY/TC100UZ/TC100VA/TC100VB/TC100VC/TC100VD/TC100VE/TC100VF/TC100VG/TC100VH/TC100VI/TC100VJ/TC100VK/TC100VL/TC100VM/TC100VN/TC100VO/TC100VP/TC100VQ/TC100VR/TC100VS/TC100VT/TC100VU/TC100VV/TC100VW/TC100VX/TC100VY/TC100VZ/TC100WA/TC100WB/TC100WC/TC100WD/TC100WE/TC100WF/TC100WG/TC100WH/TC100WI/TC100WJ/TC100WK/TC100WL/TC100WM/TC100WN/TC100WO/TC100WP/TC100WQ/TC100WR/TC100WS/TC100WT/TC100WU/TC100WV/TC100WW/TC100WX/TC100WY/TC100WZ/TC100XA/TC100XB/TC100XC/TC100XD/TC100XE/TC100XF/TC100XG/TC100X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TERMINAL CONNECTIONS



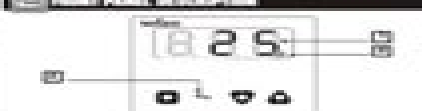
Control Output	Relay Output	SSR Drive Output

Measured Value Input	Thermocouple (LX1, LX2, LX3)	RTD (PT100)



Use only the correct thermocouple wire or compensating cable from the probe to instrument terminals providing leads to the TC100. Failure to use the correct wire type will lead to inaccurate readings.
Ensure that the input sensor connected at the TC100 and the sensor connected to the temperature controller configuration are the same.

PICTURE PANEL, BUILT-IN TYPE



<input type="checkbox"/> Power value (PTC) / Proportional band display	<input type="checkbox"/> Displays a process value (PTC) <input type="checkbox"/> Displays for parameter selection at parameter setting mode for 1 sec <input type="checkbox"/> Displays temperature value <input type="checkbox"/> Displays set point
<input type="checkbox"/> Set value (PTC)	<input type="checkbox"/> Displays a set value (PTC) when B is set (process)
<input type="checkbox"/> Control output (ON/OFF)	The LED is lit when the control output is ON/OFF
<input type="checkbox"/> None	Auto-tune: Control output status with heater output

PICTURE PANEL, REMOTE TYPE

Function	Key process
<input type="checkbox"/> On/Off (ON/OFF)	<input type="checkbox"/> Press [ON/OFF] for 3 seconds
<input type="checkbox"/> Set value (PTC)	<input type="checkbox"/> Press [SET] for 3 seconds
<input type="checkbox"/> Control output (ON/OFF)	<input type="checkbox"/> Press [ON/OFF] for 3 seconds
<input type="checkbox"/> None	<input type="checkbox"/> Press [ON/OFF] for 3 seconds

After These Completions
The input filter is used to filter out quick changes that occur to the process variable to a dynamic or quick responding application which causes erratic control. The digital filter also acts in reducing process noise when the electrical noise affects the input signal. Larger the value of FRC entered, greater the filter action and the closer the controller mode to the process and vice versa.

- Auto-tuning:
The Auto-tuning function automatically completes and displays the results of the auto-tuning process. The auto-tuning process is completed when the auto-tuning process is completed. The auto-tuning process is completed when the auto-tuning process is completed. The auto-tuning process is completed when the auto-tuning process is completed.



- If the power goes OFF before auto-tuning is completed, auto-tuning will be restarted at next power-on.
- If auto-tuning is not completed after 3-4 cycles, the auto-tuning is suspended to fail. In this case, check the wiring. If the wiring is correct, the auto-tuning process will be restarted at next power-on.
- Carry out the auto-tuning again, if there is a change in the process or vice versa.

Auto-tuning (For Remote Type)
The "ON/OFF" is ON/OFF for the auto-tuning process. The auto-tuning process is completed when the auto-tuning process is completed. The auto-tuning process is completed when the auto-tuning process is completed. The auto-tuning process is completed when the auto-tuning process is completed.

CALIBRATION CERTIFICATE

Date: _____
Model No: _____
Calibration Accuracy:
For TC inputs: 0.2%, of FS at 25°C
For R & B inputs: 0.2%, of FS at 25°C
For RTD inputs: 0.1%, of FS at 25°C
Source: _____
Multimeter calibration report no: _____

This calibration of this unit has been verified at the following values:

SENSOR	CALIBRATION TEMPERATURE (°C)	DISPLAY VALUE (°C)
J	100	100
	500	500
	900	900
K	100	100
	500	500
	900	900
PT100	400	400
	500	500
	600	600

The thermocouple (°RTD) curves are furnished in this manual (processor based product), and hence the values corresponding to the measured temperature values are also equally accurate at every point in the curve.

Mcvoice Ls 303 User Guide

M Woodhall



Mcvoice Ls 303 User Guide:

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Mcvoice Ls 303 User Guide Introduction

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