

Ordering Information

Basic DTA Series

DTA 1 2 3 4 5 6

1 2 3 4 Panel Size	+4848 : W48*H48mm 1/16DIN +4896 : W48*H96mm 1/8DIN +7272 : W72*H72mm +9696 : W96*H96mm 1/4DIN
5 Output Selection	R: Relay output, SPDT (SPST: 1/16 DIN size), 250VAC, 5A V: Voltage pulse output, 14V+10% ~ -20%(Max. 40mA) C: Current output, 4~20mA
6 Communication (Optional)	0: No Interface 1: RS-485

Advanced DTB Series

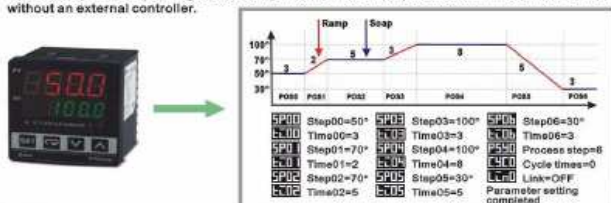
DTB 1 2 3 4 5 6 7

1 2 3 4 Panel Size	+4824 : W48*H24mm 1/32DIN +4848 : W48*H48mm 1/16DIN +4896 : W48*H96mm 1/8DIN +9696 : W96*H96mm 1/4DIN
5 1st Output Group Selection	R: Relay output, SPDT (SPST: 1/16 DIN and 1/32 DIN size), 250VAC, 5A V: Voltage pulse output, 14V +10% ~ -20%(Max. 40mA) C: DC current output, 4 ~ 20mA L: Linear voltage output, 0~5V, 0~10Vdc
6 2nd Output Group Selection	R: Relay output, SPDT (SPST: 1/16 DIN and 1/32 DIN size), 250VAC, 5A V: Voltage pulse output, 14V +10% ~ -20% (Max. 40mA)
7 EVENT Inputs / CT function (Optional)	None: No EVENT input, No CT (Current transformer) E: EVENT input is provided, No CT (Current transformer) T: CT (Current transformer) is provided, No EVENT input

Features

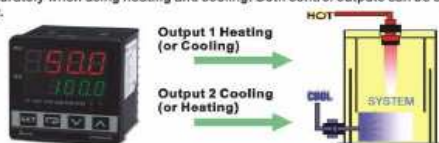
Eight built in patterns for PID Program Control (Ramp/Soak Program Control)

PID control is supported in eight patterns (Pattern 0~7). Each pattern contains 8-step (Step 0~7) and 8-time (Time 0~7) settings. User can perform 64-level temperature and time control actions without an external controller.

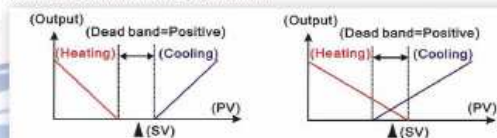


Dual Loop Output Control (Heating/Cooling Control)

Two built-in control outputs are provided: heating and cooling. Temperature control is achieved rapidly and accurately when using heating and cooling. Both control outputs can be operated simultaneously.



In the Delta temperature controller, P (Proportional Band), I (Integral Time) and D (Derivative Time) parameters are automatically set by using the Auto-tuning(AT) function. The P value of the 2nd-output group is stored in the Coefficient **0.55** parameter. The user can adjust the Dead band **0.55** parameter to set an area in which the heating and cooling control outputs are not activated around the set point value as shown in the graphs below:



Delta Temperature Controllers

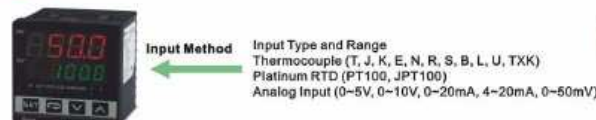


RS-485 (Modbus ASCII/RTU) Communication

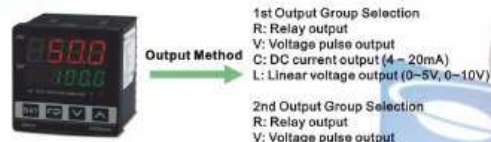
The Delta DTB series temperature controller (optional in the DTA series) has a built-in RS-485 interface. The controller easily communicates with other external devices (i.e. - HMI touch screens, PCs and PLC) for data search and system integration. Synchronous connection and monitoring can be effectively completed. Up to 247 communication addresses are available with transmission speeds of 2400~38400 bps.



Universal Sensor Inputs



Selectable Control Outputs



B&B electronics
MANUFACTURING COMPANY

International Headquarters: 707 Dayton Road PO Box 1040 Ottawa, IL 61350 USA
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