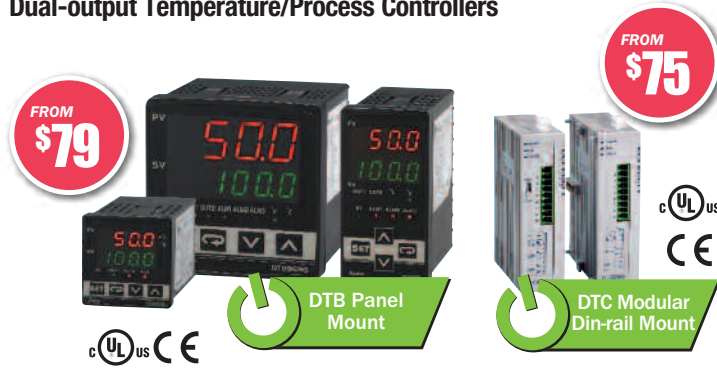




TEMPERATURE CONTROLLERS

Dual-output Temperature/Process Controllers



Features:

- Four types of control modes: PID with Auto-tune, ON/OFF, Manual, and PID programmable control (Ramp/Soak control).
- PID control function allows 64 sets of temperature and control times.
- Dual output control (Heating/cooling control)
- RS-485, 2400 to 38,400bps, MODBUS RTU/ASCII
- Multiple output configurations
- UL File #E243710

Universal Sensor Inputs

- Thermocouple (K, J, T, E, N, R, S, B, L, U, TXK)
- 3 wire platinum RTD (pt100, jpt100)
- Analog input (0-5V, 0-10V, 0-20mA, 4-20mA, 0-50mV)

DTB - Panel Mount

Part Number	Price	Description	Size
100 - 240VAC, 50/60Hz Powered Units			
DTB4824RR	\$79	Output 1 - Relay, Output 2 - Relay	1/32 DIN
DTB4824VR	\$79	Output 1 - SSR Driver, Output 2 - Relay	
DTB4848RR	\$89	Output 1 - Relay, Output 2 - Relay	1/16 DIN
DTB4848VR	\$89	Output 1 - SSR Driver, Output 2 - Relay	
DTB4848V	\$89	Output 1 - SSR Driver, Output 2 - SSR Driver	1/8 DIN
DTB4848CR	\$89	Output 1 - DC Current, Output 2 - Relay	
DTB4848CV	\$89	Output 1 - DC Current, Output 2 - SSR Driver	1/4 DIN
DTB4848LR	\$89	Output 1 - Linear Voltage, Output 2 - Relay	
DTB4896RRE	\$99	Event input, Output 1 - Relay, Output 2 - Relay	1/8 DIN
DTB4896VRE	\$99	Event input, Output 1 - SSR Driver, Output 2 - Relay	
DTB4896CRE	\$99	Event input, Output 1 - DC Current, Output 2 - Relay	1/4 DIN
DTB4896LRE	\$99	Event input, Output 1 - Linear Voltage, Output 2 - Relay	
DTB9696RRE	\$119	Event input, Output 1 - Relay, Output 2 - Relay	1/4 DIN
DTB9696VRE	\$119	Event input, Output 1 - SSR Driver, Output 2 - Relay	
DTB9696CRE	\$119	Event input, Output 1 - DC Current, Output 2 - Relay	
24VDC ±10% Powered Units			
DTB4824RR-D	\$79	Output 1 - Relay, Output 2 - Relay	1/32 DIN
DTB4824VR-D	\$79	Output 1 - SSR Driver, Output 2 - Relay	
DTB4848RR-D	\$89	Output 1 - Relay, Output 2 - Relay	1/16 DIN
DTB4848VR-D	\$89	Output 1 - SSR Driver, Output 2 - Relay	
Accessories			
IFD6500	\$43	Delta Communication Interface, USB-to-RS485 converter	N/A

DTC - Modular Din-rail Mount

Part Number	Price	Description
Master Modules (support up to 7 expansion modules)		
DTC1000R	\$75	Output 1 - Relay (250VAC, 3A max.), Output 2 - Relay (250VAC, 3A max.)
DTC1000V	\$75	Output 1 - SSR Driver (12V, 40mA), Output 2 - Relay (250VAC, 3A max.)
Expansion Modules		
DTC2000L	\$65	Output 1 - Linear Voltage (0-10V), Output 2 - Relay (250VAC, 3A max.)
DTC2000R	\$65	Output 1 - Relay (250VAC, 5A max.), Output 2 - Relay (250VAC, 3A max.)
DTC2000V	\$65	Output 1 - SSR Driver (12V, 40mA), Output 2 - Relay (250VAC, 3A max.)
IFD6500	\$43	USB-to-RS485 converter

DTCOM Programming Software for DTB & DTC

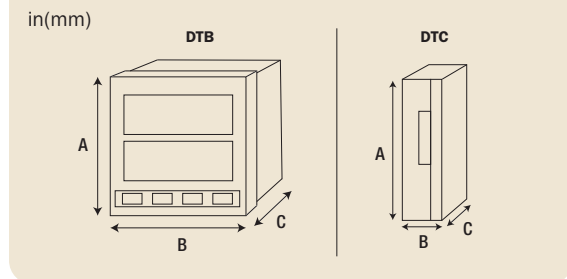
Download FREE Software!

- Controller Parameter Setup
- Record Temperature

www.factorymation.com/downloads



Dimensions



Part Number	Overall in (mm)			Cutout in (mm)	
	A	B	C	A	B
DTB4824	0.94 (23.8)	1.88 (47.8)	4.06 (103.1)	0.86 (21.9)	1.77 (44.9)
DTB4848	1.87 (47.6)	1.87 (47.6)	3.50 (88.8)	1.76 (44.8)	1.76 (44.8)
DTB4896	3.77 (95.8)	1.88 (47.8)	3.62 (92.0)	3.58 (91.0)	1.73 (44.0)
DTB9696	3.77 (95.9)	3.77 (95.9)	3.72 (94.5)	3.57 (90.8)	3.57 (90.8)
DTC	3.78 (96.0)	0.99 (25.1)	2.50 (63.4)	-	-

General Specifications

Specification	DTB AC Units	DTB DC Units	DTC Units
Input Voltage	100 to 240VAC, 50/60Hz	24VDC	24VDC
Operational Voltage	-85% to +110% of rated voltage	±10%	±10%
Power Consumption	5VA max.		3 W per module, 24 W max.
Display	2-line, 7-segment LED display, 4 digits available, PV: red, SV: green		-
Display Scale	1 digit after decimal point, or no decimal point		-
Output Function	Control output, Alarm output		Control output, Alarm output, Retransmission output (Linear voltage type)
Relay Output	SPDT (DTB4848/4824: SPST), Max. load 250VAC, 5A resistive		SPST, Max. load 250VAC, 3A resistive
SSR Driver Output	12VDC (+10% - -20%), 40mA max		14VDC (+10% - -20%), 40mA max
Current Output	4-20mA, 600Ω max. load resistance		4-20mA, 500Ω max. load resistance
Analog Voltage Output	0-10V, load resistance must be > than 1kΩ		
Control Method	PID, PID Step (Ramp/Soak), Manual, ON/OFF		
Alarm Function	12 mode selections		
Communications	RS-485, 2400 - 38,400bps, MODBUS RTU/ASCII		
Sampling Rate	Analog input: 150 msec/per scan Thermocouple or Platinum RTD: 400 msec/per scan		
Temperature	Ambient: 32 to 122 °F (0 °C to +50 °C); Storage: -4 to 149 °F (-20 °C to +65 °C)		
Environmental	Vibration Resistance: 10 to 55Hz, 10m/s ² for 10min, each in X, Y and Z directions; Shock Resistance: Max. 300m/s ² , 3 times in each 3 axes, 6 directions; Altitude: 2000m or less; Relative Humidity: 35% to 80% (non-condensing)		