DT... series

DTK4848R01

DT320...

new

DT340...

DT360...

Temperature controllers

type	panel size (mm) W x H	description	output 1	output 2
DTK series - "Econo" temperature controller		*100 - 240 VAC 50/60Hz*		*(60 mm deep)*

- Universal sensor inputs:
  - Thermocouple: Type (K-J-T-E-N-R-S-B-L-U-TXK)
  - Platinum RTD: Pt100, JPt100
- LCD display: Process Value (PV) Red colour - Set point (SV) Green colour
- Control method: PID, ON/OFF, Manual control mode
- Alarms: 1 alarm output with 9 selectable alarm modes
- Display: High resolution LCD display
- Speed: High speed sampling time (100ms)

type	panel size	description	output 1	output 2
DTK4848R01	48 x 48	econo temperature controller	relay *(5A AC1)*	–
DTK4848V01	48 x 48	econo temperature controller	14 VDC pulse	–
DTK4848C01	48 x 48	econo temperature controller	4 - 20mA	–
DTK4896R01	48 x 96	econo temperature controller	relay *(5A AC1)*	–
DTK4896V01	48 x 96	econo temperature controller	14 VDC pulse	–
DTK4896C01	48 x 96	econo temperature controller	4 - 20mA	–
DTK7272R01	72 x 72	econo temperature controller	relay *(5A AC1)*	–
DTK7272V01	72 x 72	econo temperature controller	14 VDC pulse	–
DTK9696R01	96 x 96	econo temperature controller	relay *(5A AC1)*	–
DTK9696V01	96 x 96	econo temperature controller	14 VDC pulse	–

DT3 series - Advanced high speed intelligent temperature controller

New **DT3 series** temperature controller designed with upgraded hardware and higher specifications to offer smart operation, fast response and simple expendability and user-defined function keys.

- Various built-in sensor input modes:
  - Thermocouple: K, J, T, E, N, R, S, B, L, U, TXK
  - Platinum RTD: Pt100, JPt100, RTD: Cu50, Ni120
  - Analog input: 0 - 5 V, 0 - 10 V, 0 - 20 mA, 4 - 20 mA, 0 - 50 mV
- Various Control Modes: Auto Tuning, FUZZY, Manual,ON/OFF PID Process Control, Self Tuning
- Various Output Modes: Relay, Voltage pulse, Current DC , Linear voltage
- Communication: RS-485 communication MODBUS ASCII / RTU protocol
- Display: Large 3-colour LCD Display
- IP protection: IP66 protection level and CE, UL certified
- Output: Dual output control function for heating and cooling
- Detection: Heater disconnection detection
- Sampling rate: 100ms
- Supply voltage: 100 - 240 VAC

type	panel size	description	output 1	output 2
DT320RA-0200	48 x 48	advanced temperature controller	relay	
DT320VA-0200	48 x 48	advanced temperature controller	14 VDC pulse	*see*
DT340RA-0200	48 x 96	advanced temperature controller	relay	**output 2**
DT340VA-0200	48 x 96	advanced temperature controller	14 VDC pulse	*options*
DT360RA-0200	96 x 96	advanced temperature controller	relay	*(below)*
DT360VA-0200	96 x 96	advanced temperature controller	14 VDC pulse	

Note: *24 VDC (change 7th digit **"A"** of part number to **"D"** for 24 VDC application on request)*

Expansion facilities and accessories for above DT3 controllers

- Max 1 extra output card
- Max 2 optional cards

Replace the last **4 digits** for additional options:

First 2 digits identify the output - Last 2 digits identify the option

Example: **V213** is a voltage output with event and remote set up input.

     0233 is no extra control output but with retransmission output and remote set up input.

-	**R200**	Relay output (5A 250 VAC)	DT3-R
-	**V200**	Voltage output (14 VDC pulse)	DT3-V
-	**C200**	DC current output (4 - 20mA)	DT3-C
-	**L200**	Linear voltage output (0 - 10 VDC)	DT3-L
-	**0210**	Event input 1	DT3-EVENT
-	**0220**	CT input 1	DT3-CTI
-	**0230**	Retransmission output	DT3-RETRANS
-	**0203**	Remote setup input	DT3-REMOTE

DT3-CT30A	30A	current transformer for heater disconnection or overcurrent detection
DT3-CT100A	100A	current transformer for heater disconnection or overcurrent detection

Temperature controllers

Common Characteristics

- Universal sensor inputs:
  Thermocouple: Type (K-J-T-E-N-R-S-B-L-U-TXK)
  Platinum RTD: Pt100, JPt100
- Display: 2-line 7-segment LED display   *Process Value (PV) Red - Set point (SV) Green*

type	panel size (mm) W x H	description	output 1	output 2

DTA series - "Standard" temperature controller   *100 - 240 VAC 50/60Hz   IP65*

- Control methods: PID, ON/OFF, Manual control
- Sampling rate: 500msec

type	panel size (mm) W x H	description	output 1	output 2
DTA4848R0	48 x 48	standard temperature controller	relay	–
DTA4848V0	48 x 48	standard temperature controller	14 VDC pulse	–
DTA4848C0	48 x 48	standard temperature controller	4 - 20mA	–
DTA4896R0	48 x 96	standard temperature controller	relay	–
DTA9648R0	96 x 48	standard temperature controller	relay	–
DTA7272R0	72 x 72	standard temperature controller	relay	–
DTA9696R0	96 x 96	standard temperature controller	relay	–

DTB series - "Advanced" temperature controller   *100 - 240 VAC 50/60Hz   IP65*

- Two groups of outputs to auto-tune 2 groups of PID parameters   3 groups of alarm outputs
- Analog inputs: 0 - 5V, 0 - 10V, 0 - 20mA, 4 - 20mA, 0 - 50mA
- Sampling rate: Analog input: 150msec, Thermocouple or Platinum RTD 400msec
- Built-in dual loop output control for heating and cooling
- Built-in RS-485 digital communication, 2.400 - 38.400bps

type	panel size (mm) W x H	description	output 1	output 2
DTB4824RR	48 x 24	advanced temperature controller	relay	relay
DTB4848RR	48 x 48	advanced temperature controller	relay	relay
DTB4848VR	48 x 48	advanced temperature controller	14 VDC pulse	relay
DTB4848CR	48 x 48	advanced temperature controller	4 - 20mA	relay
DTB4848LR	48 x 48	advanced temperature controller	0 - 5, 0 - 10V	relay
DTB4896RR	48 x 96	advanced temperature controller	relay	relay
DTB4896VR	48 x 96	advanced temperature controller	14 VDC pulse	relay
DTB4896CR	48 x 96	advanced temperature controller	4 - 20mA	relay
DTB9696RR	96 x 96	advanced temperature controller	relay	relay
DTB9696VR	96 x 96	advanced temperature controller	14 VDC pulse	relay
DTB9696CR	96 x 96	advanced temperature controller	4 - 20mA	relay
DTB9696LR	96 x 96	advanced temperature controller	0 - 5, 0 - 10V	relay
DTB4848RRE*	48 x 48	event input with 2 setpoints	relay	relay
DTB4896RRE*	48 x 96	event input with 2 setpoints	relay	relay

* *Event function, permits switching between 2 different temperature set points*

DTC series - "Modular" temperature controller *24 VDC, isolated switching power supply*

DTC features modular, wire-saving structure able to monitor many temperature points with parallel modular extensions, providing user configurable outputs according to actual requirements

- PID, programmable PID, ON/OFF, Manual control *(up to 64 sets)*
- Adopts dual-loop output control *(able to execute heating and cooling simultaneously)*
- Analog inputs: : 0 - 5V, 0 - 10V, 0 - 20mA, 4 - 20mA, 0 - 50mA
- Built-in RS-485 digital communication, 2.400 - 38.400bps

type	panel size (mm) W x H	description	output 1	output 2
DTC1000R	25.2 x 90	main unit temperature controller	relay	relay
DTC1000C	25.2 x 90	main unit temperature controller	4 - 20mA	relay
DTC2000R	25.2 x 90	extension unit temp controller	relay	relay
DTC2000C	25.2 x 90	extension unit temp controller	4 - 20mA	relay

DVP02TK series - Temperature control modules *(universal input)*   *Built-in RTU-485*

- Inputs: Analog: 0 - 10V, 0 - 20mA, 4 - 20mA (16-bit)
                         Thermocouple: J, K, R, S, T, E, N, B, C, L, U, TXK, PLII
                         RTD: Pt100, JPt100, Pt1000, Cu50, Cu100,
                         Ni100, Ni1000, LG-Ni1000
- Output point: Built-in PID program control/manual control
- Expandable   With **DVP02TU** plug-in modules to expand *(up to 8 modules) see page* **C-4**

DVP02TKL-S	2 in	2 AO	2	analog	output voltage/current	analog
DVP02TKN-S	2 in	4 DO	4	transistor	NPN output overheat/current	transistor
DVP02TKR-S	2 in	4 rel	4	relay	output overheat/overcurrent	relay

DTD4848R0

DTA4896R0

DTA7272R0

DTB4824RR

DTC1000...

DTC2000...