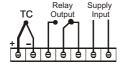
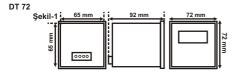
### **Connection Scheme**



#### **Dimensions**



#### DT 96









# DIGITAL TEMPERATURE CONTROLLER



DT-72 DT-96



**User Guide** 

### DT-72/96 Digital Temperature Controller

The microcontroller based, digital temperature controller with 3 digits display and memory protection.

#### A) General Specifications:

- 1) The process temperature value and control method can be indicated and adjusted easily on the digital display.
- 2) Control method can be chosen between ON-OFF or Time Proportional
- 3) Memory protection with EEPROM.
- 4) Input types are J type (Fe-CuNi ) and K type (NiCr-Ni)
- thermocouples.
- 5) Relay output.
- 6) The control method ( HYS-PI ), thermocouple type ( J, K ) and output state ( OUT ) can be shown easily by LEDs.

#### B) Usage of Device:

When the device is energized, at first desired temperature value and then in automatic mode process temperature is seen on the display. By pressing the "MODE" button on the front panel, the message on the display shows the control method. "HYS" message means ON-OFF, "tp" message means the Time Proportional control method is using.

By first pressing the "MODE" button the set value can be seen on the front panel. In 3 seconds, if "MODE" button is pressed again, the control method and value are seen. After that if "MODE" button is pressed again, the control method can be changed and the new control method and value are seen. When "MODE" button is released, process temperature is seen again automatically. In Automatic Mode, if "MODE" button is pressed in 3 seconds, thermocouple type can be changed J or K.

By using the "MODE" button, desired temperature value (SET), ON-OFF control method's hysteresis value (HYS) and according to the 20 °C proportional band of Time Proportional form's control period (tp) can be chosen.

#### Setting ranges;

SET from -50°C to 900°C, HYS from 2°C to 20°C, TP from 10 s. to 200 s. The value is seen on the display, can be adjusted with "+" and "-" buttons. 3 seconds after the adjustment, the adjustment value is automatically saved and then process temperature is seen on the display automatically.

#### Factory Defaults:

SET:200°C HYS:10°C TP:20s.

#### D) Technical Specifications:

Measurement Range :-99 ...999 °C
Control Range :-50...900 °C

Accuracy :± %1

Display : 3-Digit, Red, 10mm

Supply Voltage : 230 V AC ± %20, 50-60 Hz. Power Consumption : <=3W

Operating Temperature :-5...+55°C

Temperature Compensation: -5...+55°C
HYS Value Range: 2°C - 20°C (for ON-OFF method)
Proportional Band: 20°C (for Time Proportional method)

Control Period : 10s-200s(for Time Proportional method)
Sensibility : 1°C

Control Output : Relay (220 VAC, 5A)

Electrical Connector : Socketed Connectors Connection : Front Panel

Dimensions :72 x 72 , 96 x 96

#### C) Working of Device: ON-OFF control method:

If the process temperature is bigger then the desired temperature value, the control output is deenergised. If the process temperature is smaller

#### Time Proportional control method;

Due to the proportional band which is 20 °C, 4 °C under and over of the desired temperature value, device works as same as ON-OFF control method. In the other values device works related to the control period. When using these forms, if the energy is cut off, adjusted values and control method retains.If the "Err" message is seen on the display, it means temperature sensor is disconnected or over temperature condition is occured. When this message is seen, the control output is deenergised.

then the desired Temperature value, the control output is energized.

## Temperature Controllers

# Industrial Measurement and Control Devices

Order Code	Product Code	Dimensions		Technical Specification				
		72x72	96x96	Analog Adjustable	Digital Adjustable	Digital Display	J Type	К Туре
55272	ADT 72 Temperature Controllers	•		•		•	•	•
55296	ADT 96 Temperature Controllers		•	•	•	•	•	•
55572	DT 72 Temperature Controllers	•				•	•	•
55596	DT 96 Temperature Controllers		•		•	•	•	•









## Termostatik Sıcaklık Kontrol Cihazları

## Industrial Measurement and Control Devices









Order Code	Product Code	Description	Box Pcs.
55272	ADT 72	Anolog Adjustable, Digital Display Thermostat	10
55296	ADT 96	Anolog Adjustable, Digital Display Thermostat	10
55572	DT 72	Dijital Adjustable, Digital Display Thermostat	10
55596	DT 96	Dijital Adjustable, Digital Display Thermostat	10



### Thermocouples

Order Code	Description		
J Type Fe Const			
98010	1,00 mt. Thermocouples		
98015	1,50 mt. Thermocouples		
98020	2,00 mt. Thermocouples		
98025	2,50 mt. Thermocouples		
98030	3,00 mt. Thermocouples		
98040	4,00 mt. Thermocouples		
98050	5,00 mt. Thermocouples		



Lenght: 2-10 cm Diameter: 4-6-8 cm

- 3,5 € is added for each 2 meters after 5 meters order.
- Please define diameters as 4-6-8 while ordering.
- J tipi thermostats measurement range is 0-400 °C; for K type: 0-800 °C

Order Code	Description				
K Type Cr./Ni/Ni					
98012	1,00 mt. Thermocouples				
98017	1,50 mt. Thermocouples				
98022	2,00 mt. Thermocouples				
98027	2,50 mt. Thermocouples				
98032	3,00 mt. Thermocouples				
98042	4,00 mt. Thermocouples				
98052	5.00 mt. Thermocounles				

