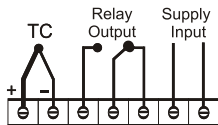
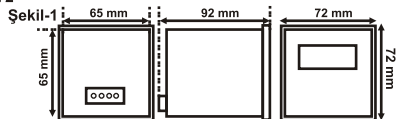


## Connection Scheme

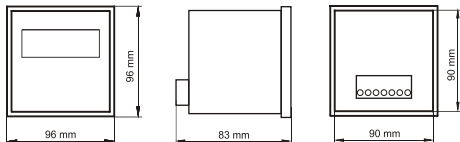


## Dimensions

ADT 72



ADT 96



**KARACA**

**KRK**<sup>®</sup>

29001  
9001:2008

## ANALOG DIGITAL TEMPERATURE CONTROLLER



ADT-72

ADT-96



**User Guide**

UG-11/REV 01

## ADT ANALOG DIGITAL TEMPERATURE CONTROLLER

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

### A) GENERAL SPECIFICATIONS:

- 1) The process temperature value can be indicated and adjusted easily on the digital display.
- 2) Without making any adjustment, control method changes between ON-OFF or Time Proportional automatically.
- 3) Input types are J type (Fe-CuNi) thermocouple and K type (NiCr-Ni).
- 4) Input type can be changed by pressing button for 3 seconds.
- 4) Relay output.
- 5) 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 adjusting the knob on the front panel, the desired temperature is chosen. By pressing the "MODE" button on the front panel, the desired temperature is seen on the display.

3 seconds after the adjustment, the process temperature is seen on the display automatically. Input type can be changed by pressing button for 3 seconds.

### C) WORKING OF DEVICE:

By changing the desired value; device starts to control with Time Proportional method automatically. After the system is reached to the desired value, it starts to control with ON - OFF method.

**In ON-OFF Control method;** if the process temperature is bigger then the desired temperature value, the control output is de-energized. If the process temperature is smaller then the desired temperature value, the control output is energized.

**In Time Proportional Control method;** due to the proportional band which is

20 °C, 10 °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 which is 10 seconds.

If the "Err" message is seen on the display, it means temperature sensor is disconnected. When this message is seen, the control output is de-energized.

## D) TECHNICAL SPECIFICATIONS:

**Measurement Range :** -99 ...900 °C

**Control Range :** 0...400 °C J type; 0 ...800 °C K type

**Accuracy :** For display  $\pm$  (%1+1) digit  
For adjusting the knob  $\pm$  %3 °C

**Supply Voltage :** 220V AC %20, 50-60 Hz.

**Power Consumption :** <3VA

**Operating Temperature :** -5°C...+55°C

**Temperature Compensation :** -5°C...+55°C

**Hysteresis :** 4°C ( for ON-OFF method )

**Proportional Band :** 20 °C ( for Time Proportional method )

**Control Period :** 10s (for Time Proportional method)

**Sensibility :** 1°C

**Control Output :** Relay(Omron), 1 inverter, 5A/250Vac  
(Resistive load)

**Electrical Connector :** Socketed Connectors

**Connection :** Front Panel

Code	Display	Weight( kg)
ADT 72	3 digi red 10mm	0,26
ADT 96	3 digi red 14mm	0,30

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





Termostat

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

J & K Type Selectable

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

Not

- 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. Thermocouples

