Thermostat

ETP-97

HVAC CONTROLS AND POWER

Universal Thermostat

The ETP thermostat is an allround industrial ON/OFF thermostat for PT100 sensors.

- 4 temperature ranges from –50 to +375ºC
- Change-over between cooling and heating functions
- Several thermostats may be controlled by 1 sensor
- DC outputs, 0-10V and 0-20/4-20mA
- Safeguarded in case of sensor failure
- May be applied as a value converter

PRODUCT PROGRAM

TYPE	PRODUCT
ETP-1974	230V, Output 4-20mA

ACCESSORIES	
ETPP	Ext. potentiometer unit
ETF-..97	PT100 temperature sensor of various types

Temperature scales, set at installation:

4 temperature scales are supplied to be attached to the control knob.

Scale 1:	-50/+75ºC
Scale 2:	+50/+175ºC
Scale 3:	+150/+275ºC
Scale 4:	+250/+375ºC

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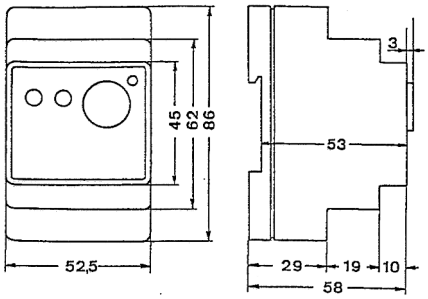
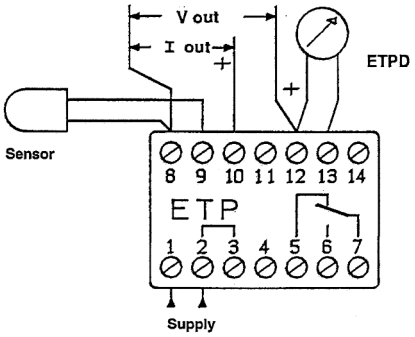
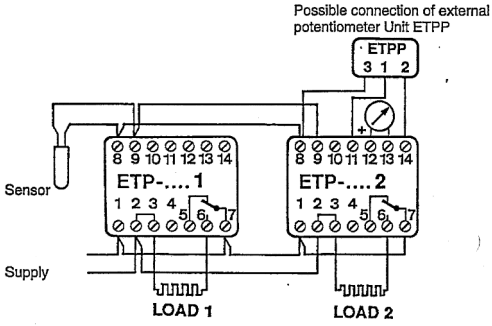


Dimensions



Installation



ETP-97 controlled by the same sensor.
Step 1 is programmed as master, Step 2 as slave

FUNCTION

The ETP-97 thermostat is equipped with 6 switches and a programming table, which facilitates the choice between the following functions and settings:

1. The relay action may be set to call for either "heating" or "cooling".
2. There are 4 temperature ranges from -50ºC to +375ºC selectable with an interval of 125ºC.
3. Adjustment for "master-slave function", i.e. the master thermostat sensor controls one or several slave thermostats. The system allows an application as a neutral-zone thermostat, a 2- to 3-step thermostat, with several alarm levels etc.

Controls

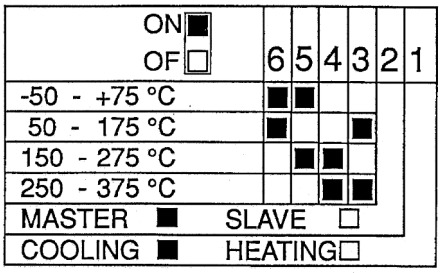
The set control serves to set the desired temperature. With a coin inserted into its slot the scale may be adjusted in accordance with a reference thermometer. Thus, a high accuracy throughout the entire scale is ensured. The DIFF control enables the temperature differential to be adjusted from 1 to +15ºC. The SCALE ADJ control allows compensation for sensor tolerances and conductor resistance. Red light-emitting diode indicates when the relay has been connected. In case of an error in the sensor circuit, the output relay will always fall out.

Interconnections:

An analogue instrument, type ETPD, may be connected to display the sensor temperature. Voltage outputs 0-10V DC and current outputs 0-20mA or 4-20mA may be utilized for remote control and data transfer to PLC systems etc. These outputs also allow the application of the ETP-97 thermostat as a value amplifier (temperature transducer) within a larger system. The setpoint may be controlled externally via External Potentiometer, type ETPP.

TECHNICAL DATA

Supply voltage	230V AC ±10%, 50/60 Hz
Power consumption	3V A
Ambient temperature	-20/+50ºC
Accuracy	±1ºC
Relay output	1 S.P.C.O., max. 10A, 250V resistive
Expected lifetime	$2x10^5$ switch functions at max. load
DC output	0-10V DC, Max. 1mA Min. range = 0V, ΔU = 80mV/ºC
Current output ETP-1974	4-20mA current loop, ΔI = 128µA/ºC
Dimensions & weight	Din rail mounting. Width 52.5mm and height above rail max. 56mm.
Weight	200g



Programming table