

Made in
 Germany

On/Off.Room Thermostats

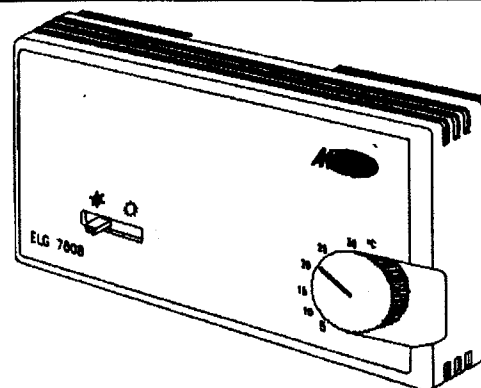
 Bi-metal type, range:0...30°C
 with manual switches

TSR32,102

TSR32. 10230I Standard type

 Color of case; B=Beige, W=white, I=Ivory, 9=Options
 Output time-out; 1=120s, 2=60s, 3=30s, 4=15s, 5=7.5s, 9=Option
 Control range; 3=0...35°C, 5=0...50°C, 9=Options
 Output; 2=On/Off, 3=3-pos, 9=Options
 power supply; 0= none, 1= 110vac, 2=220vac, 3=3Vdc, 8=24vac
 Nr.of switch: 0 = none, 1=on/off, 2= heating/cooling, 3=2+speed s/w

 Version No.
 Sensing element; 2=bellows, 3=Bi-metal, 4=Electronic

 Application : R= Room type
 Function : S= Switch
 Product group : T=Temperature


Description

Electro-mechanical thermostat for wall mounting with auxiliary switches for conventional On/Off control system used for boiler or Fan coil units equipped with a terminal zone valve in air conditioning system.

Application

In air conditioning system, heating and cooling control with Fan Coil Unit installations require zone control by thermostat for energy saving and maintaining comfort environment. Compact design of the case is ideal for vertical and Horizontal mounting on the wall.

Suitable for use with Zone valves; VQZ2.....ETA...

Ordering Specification

When ordering, please give full designation and type reference of unit;

Ex: TSR32.30230I Room mounting
 Bi-metal thermostat
 3 switches
 1 output,
 0...30°C, 120s
 Ivory color

Technical Data

Sensing element
 Switching capacity

Standard type
 Bi-metal
 6A Res.
 3A Ind.

Permissible amb.temp.

Operation
 Transport & storage

Operating range
 Switching accuracy at 20 °C

Permissible amb.humid.
 Protection standard of housing

Cable entry glands
 Weight

-25...65°C

-15...50°C

0...30°C

± 1.0 k

Class D to DIN 40040

IP42

pg 11

100~ 150g

Summary of Types

Type	Switches & functions				
	on/off	H/C	fan/sw	timeout	available
TSR32.00230B	○				○
TSR32.10230B	○	○			
TSR32.10330B	○	○	○		
TSR32.20330B	○	○	○		
TSR32.30330B	○	○	○		

Function

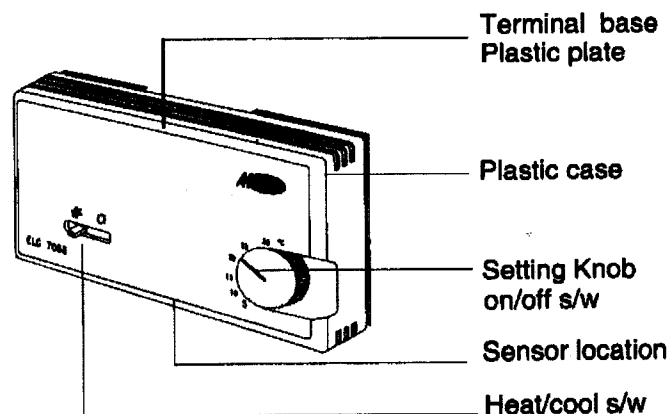
The thermostat senses temperature in the air by the bimetal expansion element which gives changes of mechanical lever to move electrical contact according to temperature in the air. The change of movement actuate the snap action switch contacts which is being transferred directly to the terminals. This potential free contacts are for close circuit of simple electrical operating equipment such as boiler and fan coil valves or any terminal unit zone valves.

Design Features

The base is very compact and made of engineering plastics since it has only terminal and to prevent unwanted damage of electronics by the workers while installation at the job site. The sensing element is protected by a high impact engineering plastic. Mounting the unit and de-mounting is very simple and easy since there is no need to disconnect the wiring and shut down the power supply for checking the units. there is no need of special tools nor adjustments.

- Entirely Maintenance free Bi-metal type sensing element.
- SPDT switch
- Built-in thermal acceleration heater
- Flat wall mounting possible
- Horizontal or Vertical mount
- Various color available

Structure



Application Advice

For further information on the complete thermostat unit also refer to the Mounting instruction of each units

Mounting and Installation Advice

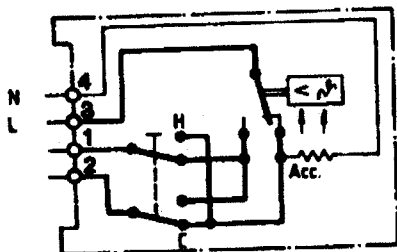
Mounting positions:

When the unit has to be mounted on the wall of high traffic area the location of the unit must be kept between 1 to 1.2 meter the floor level.

For best control of the temperature follow recommendation as;

- from floor level ; between 1 to 1.2 meters
- from opening, horizontal ; between 1 to 2 meters

Internal Diagrams

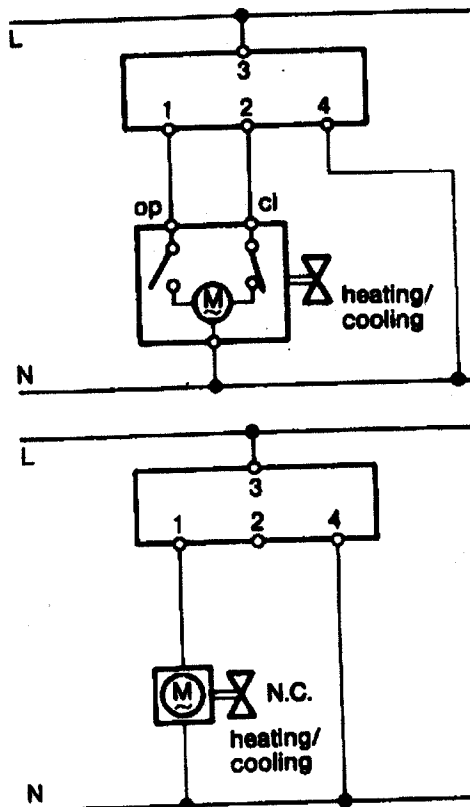


The thermostat mounting instructions are included in the delivery box together with products.

Commissioning Advice

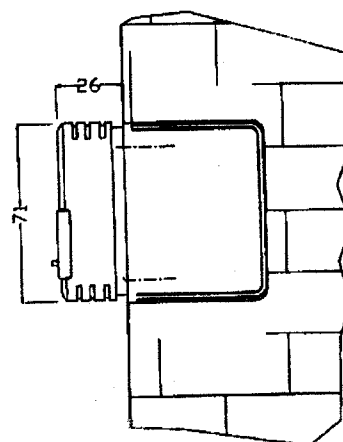
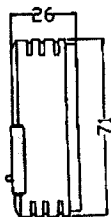
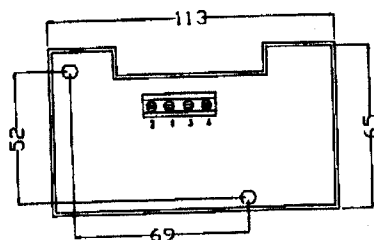
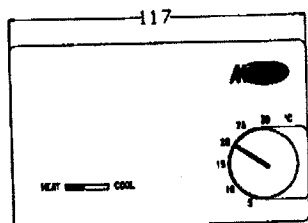
When commissioning the installation, check the wiring and the air movement.

Wiring Diagrams



Dimensions

TSR32.



Dimensions in mm

We reserve the right to make changes and improvements in our products which may affect the accuracy of the information contained in this leaflet.