



TSR03FV.../KR



TSR04FVL... /KR

Room Thermostat TSR03F...TSR04F

Adjustable room thermostat for heating only or cooling only systems

Room thermostat with manual ON/OFF switch

Two-position control

Switching voltage AC 24...250 V

Use

The TSR03FV...04FV room thermostat is used in heating only or cooling only systems to maintain the selected room temperature.

Typical use:

- Residential buildings
- Light industrial buildings

In conjunction with

- zone valves, thermal valves
- gas or oil burners
- fans
- pumps

Functions

The front of the unit carries an ON/OFF switch.

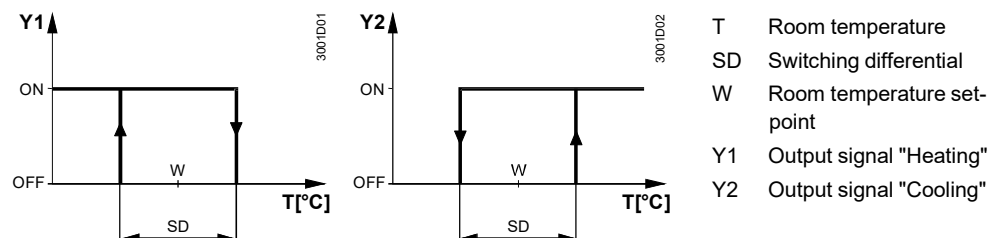
OFF

In the OFF position, the input voltage is physically separated from the output voltage.

ON

The TSR03...,04FV... room thermostat has separate outputs for heating only and cooling only. If the room temperature falls below the selected setpoint, the heating contact will close. If the room temperature exceeds the selected setpoint, the cooling contact will close.

Function diagrams



Type summary

Functionality	Order number (ASN)
Thermostat for heating or cooling application with ON/OFF switch Operating voltage AC 24...250 V	TSR03FV.04/KR
Thermostat for heating or cooling application with ON/OFF switch and operation mode indication (LED) Operating voltage AC 230 V + 10/-15 %.	TSR03FV.04/KR
Thermostat for heating or cooling application with ON/OFF switch and operation mode indication (LED) and independent ON/OFF switch Operating voltage AC 230 V + 10/-15 %.	TSR03FV.04/KR

Equipment combinations

Type of unit	Type reference	Data sheet
Motorized on/off actuators	VQZ22. STA. ATI, Siemens	4863
Electric actuator (for small valves)	AQS33. STA. ATI, Siemens	4865
Thermal actuator (for radiator valves)	ETA32. STA..ATI, Siemens	4877
Thermal actuator (for small valve 2,5Kvs)	ETA31. STP..ATI, Siemens	4878

Accessories

Description	Type reference
Adapter plate 106 x 90 mm for 4" x 4" conduit boxes	ARG70/ ATI,Siemens

Technical design

Key features of the TSR03F... 04F room thermostat:

- Mechanical same dimension
- Two-position control
- Manual ON/OFF switch
- Electronic controlled

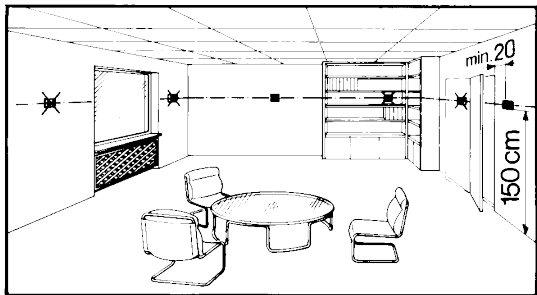
Adjustments

The required temperature is selected by a setpoint adjuster on the front of the thermostat. The setpoint setting range can be mechanically limited by means of setpoint limiter under the cover of TSR03FV.. and for TSR04FVL model the set point button on front of the cover can increase or decrease the setpoint electronically by the micro-processor built in the electronic PCB and accordingly the LCE display shows the digital numbers.

Notes

Mounting, installation and commissioning

The room thermostat should be located where the air temperature can be sensed as accurately as possible, without getting adversely affected by direct solar radiation or other heat or refrigeration sources.
Mounting height is about 1.5 m above the floor.



The unit can be fitted to most commercially available recessed conduit boxes or directly on the wall.

Only authorized personnel may open the unit to perform service
(Caution: AC 24...250 V).

The unit must be isolated from the mains supply before opening.

When installing the unit, fix the baseplate first then hook on the thermostat body and make the electrical connections. Then fit the cover and secure it (also refer to separate mounting instructions).

The thermostat must be mounted on a flat wall.

The local electrical regulations must be complied with.

If there are thermostatic radiator valves in the reference room, set them to their fully open position.

Maintenance
Mechanical design

The room thermostat is maintenance-free.

The diaphragm is filled with environmentally friendly gas.

The thermostat housing is made of plastic.

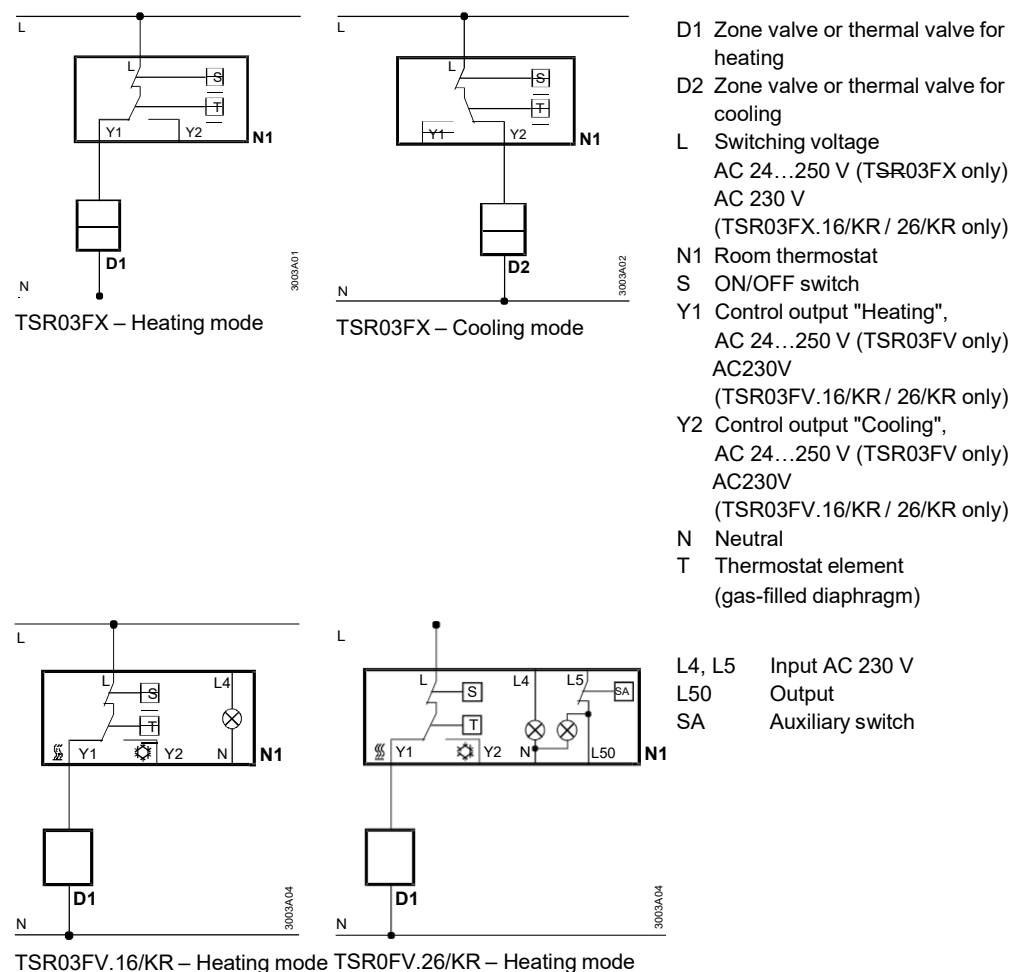
Technical Data

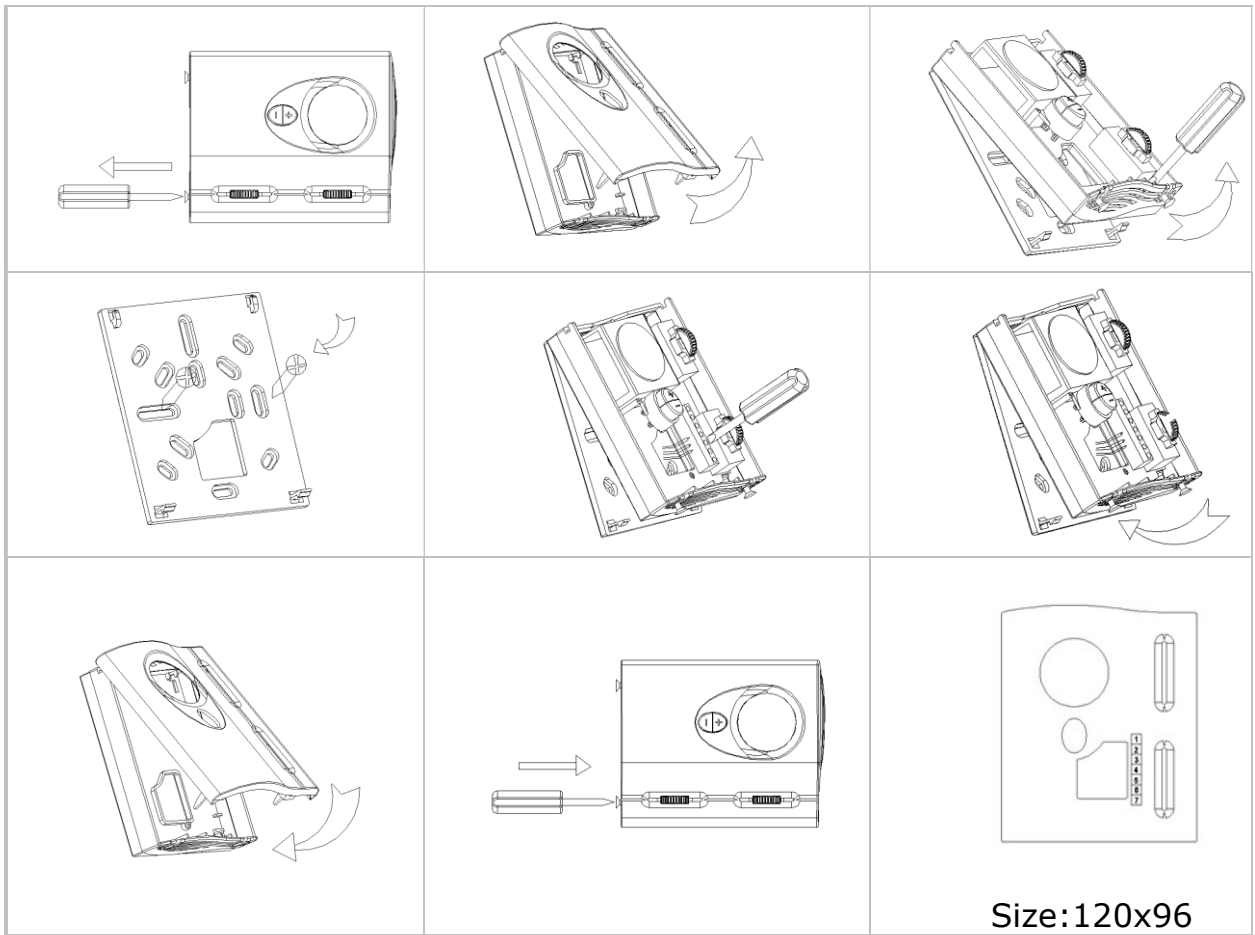


Operational data	Switching capacity	
	Voltage	
	• TSR03FVL...	AC 24...250 V
	• TSR04F./KR /	AC 230 V +10/-15 %
	Power consumption of each	0.5 VA (Only Option)
	LED Current	0.2...6 (2) A
	Frequency	50 or 60 Hz
	Switching differential SD	≤1K
	Setpoint setting range	8...30 °C
	Setpoint setting range	8...30 °C
Environmental conditions	Operation	to IEC 60721-3-3
	Climatic conditions	class 3K5
	Temperature	0...+50 °C
	Humidity	<95 % rh.
	Pollution degree	Normal, to EN 60730
	Transport / storage	to IEC 60721-3-2
	Climatic conditions	class 2K3/1K3
	Temperature	-20...+50 °C
	Humidity	<95 % rh.
	Mechanical conditions	class 2M2

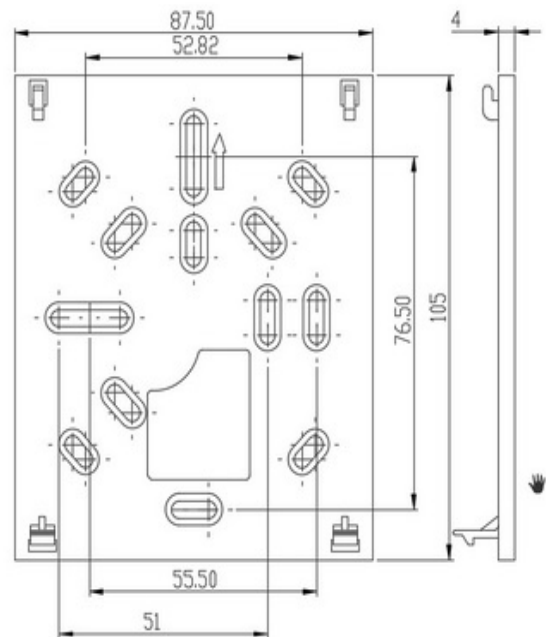
CE conformity	
Low voltage directive	2006/95/EEC
Product standard	EN 60730
C^{N474} C-Tick conformity to	
EMC emission standard	AS/NSZ 4251.1:1994
Safety standard	II to EN 60730
Degree of protection	IP30 to EN 60529
Screw terminals for	2 x 1.5 mm ² or 1 x 2.5 mm ² , min. (0.5 mm ²)
Weight	0.14 kg
Color of top cover	white, NCS 50502-G (RAL 9003)

Connection diagrams





Dimensions



Base plate(Mounting plate)