

TAC 228R, RL IAS Automatika

**Room Temperature Controller
with Built-in Room Sensor**

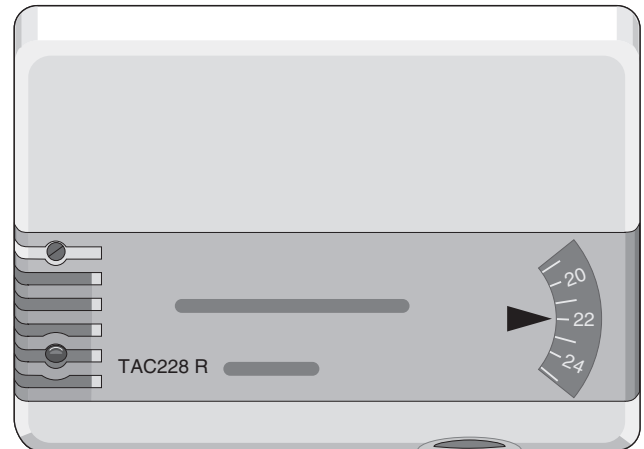
TAC 228R, RL controls room temperature in air handling systems with heating or cooling coils and in VAV systems.

The controller has a 2–10 V DC analog output, for controlling one or several heating/cooling motorized valves, or for connection to an air flow controller where it resets the setpoint for the air speed (pressure independent VAV system). However, the output signal can also directly control the damper actuator in the VAV box (pressure dependent control). In TAC 228RL the output signal also has adjustable high and low limits.

In order to satisfy the high demand for comfort, the built-in sensor not only senses the temperature of the surrounding air but also radiant heat in the room.

The desired room temperature is set with a thumb wheel, which is clearly marked, in degrees. If desired, the setting range can be locked or limited within a certain range.

The SPC (Setpoint control) function makes it possible to increase or decrease remotely the setpoints of all controllers in a building. The response of each individual controller to the SPC signal can easily be adjusted.



The controller has PI action, which provides high accuracy of control. Any permanent proportional (P) offset is completely eliminated by the integral (I) action.

The controller is intended for mounting directly on a wall or on a wall box.

The controller is supplied with 16 V DC or 24 V AC.

TECHNICAL DATA

Part number:

TAC 228R228-1084-000

TAC 228RL228-1064-000

Supply voltage16 V DC $\pm 0,3$ V
24 V AC $\pm 20\%$, 50–60 Hz

Power consumption10 mA

Ambient temperature:

Operation $\pm 0 - +50$ °C

Storage $-40 - +70$ °C

Ambient humiditymax 90% R.H.

Material, enclosureABS plastic

Enclosure ratingIP 31

Temperature sensorthermistor, 1800 at 25 °C,
radiant heat compensated

Input Z1:

Permissible voltage2–10 V DC

Currentmax 0,1 mA

Output Y:

Voltage2–10 V DC

Loadmax 2 mA, short-circuit proof

Colorwhite

Weight0,2 kg

