



The A19/A28 is an electro-mechanical series of thermostats for use in cooling, heating and ventilation systems.

- Wide range of setpoints for each model.
- Settable or permanent switching differentials.
- 2-step design using settable step differential.
- Breaking capacity 15 A at 230 V AC.
- Protection class IP30 or IP65.
- Not affected by atmospheric pressure.

Function

The electro-mechanical thermostats are constructed around a fluid-filled capillary tube and sensor housing that transfers the changes in temperature to a changeover relay. In thermostats constructed for room mounting, the capillary tube is wound and mounted on the top of the housing. The changeover relay is capable of breaking up to 15 A at 230 V AC.

Types and versions

The thermostats are available in the following versions:

- for in- or outdoor wall mounting
- featuring capillary tubes, for mounting in ventilation duct or well
- strap-on type for exterior pipe mounting

Switching differential

The model A19 1-step thermostats... are available featuring either fixed or adjustable switching differential (see model list overleaf). The model A28 2-step thermostats... feature fixed switching differential according to data outlined in model list.

Step differential

In the 2-step thermostats the step differential – that is, the temperature difference between the connection points for the steps – can be adjusted 1...4°C.

Protection class

The thermostats are available featuring protection class IP30 or IP65. For outdoor use, the IP65 protection class is recommended.

Setpoint knob

In thermostats featuring protection class IP30, the setpoint can be adjusted using a screwdriver.

Delivery also includes knob and escutcheon for setpoint adjustment. If the setpoint is to be adjusted without requiring the use of any tools, the setpoint knob can be mounted into place by pressing it onto the bezel.

The escutcheon can be mounted inside the cover if concealed setpoint adjustment is desired. With the escutcheon so mounted, the lid has to be removed in order for the setpoint to be adjusted. Thermostats using the IP65 protection class are delivered featuring an exterior control knob.

Model designations

Type	Version	Area of inst. (°C)	Switch. diff. (°C)	Step diff. (°C)	Capillary- length (m)	Form of protection
1-step						
A19BBC-9275	Room	-35...+40	2...8			IP30
A19BRC-9253	Room	-35...+40	2.5...11			IP65
A19ABC-9037	Capillary tube	-35...+40	2...8		3.5	IP30
2-step						
A28QA-9113	Room	0...43	1.5	1...4		IP65

Accessories

CHANNEL

BRACKET

For mounting of capillary tube in ventilation duct

Technical data

Relay output One changeover relay (A19...-...), two changeover relays (A28...-...)

Breaking capacity 15 (8) A, 250 VAC

Ambient temp., housing +60°C

Material, housing ABS plastic (IP30). Polycarbonate (IP65)

Cable gland IP30: For cable up to 18 mm (hole 24 mm). IP65: hole 22.5 mm for PG16 nipple.

Weight 0.4 kg

CE This product conforms with the requirements of European EMC standards IEC 669-1 and IEC669-2-1 and carries the CE mark

Wiring and dimensions

