

## Thermostat F-3000



### ■ Application

The thermostats with bridging contacts are designed for regulation of air temperature, temperature of liquids and gases and are widely used in electric water heaters, dishwashing and clothe washing machines, drying machines, electric furnaces, etc. The thermostat is used to prevent freezing of water heaters and heat exchangers according to exhaust air temperature readings.

### ■ Design and control

The operating logic is based on volumetric thermal extension. The thermostatic bulb is located in the copper sleeve. Liquid placed inside the thermostatic bulb is heated, expanded and its excessive volume is transferred through the capillary tube to the bellows. The bellows are elongated and transmit

force to the relay contact. Thus the set temperature is maintained in the system. The thermostat casing is made of plastic. The temperature probe is made of copper. The response temperature is set by rotation of the disk in the casing.

### ■ Mounting

The thermostat is suitable for wall surface mounting or installation in the duct in any position. The casing is fixed to the surface with screws on the front panel. The thermostatic bulb is designed for operation in temperature-controlled environment. The thermostat is connected with the thermal bellows with 1.5 m long capillary tube.

### ■ Technical data

	F-3000
Relay switching capacity	16A 230 V (active load)
Length of the capillary tube [m]	1,5
Operating temperature range [°C]	от -30 до +30
Reset mechanism	changeover
Operating pressure range [Pa]	50...500
Number of contacts	1 per switch
Ingress protection rating	IP 54

### ■ Thermostat wiring diagram

