

Temperature controller with digital indicator Model SC58, panel design

WIKA data sheet AC 85.24

Applications

- Temperature control in large plant:
 - Compressors
 - Refrigeration technology
 - Domestic and industrial heating

Special features

- Temperature controller and digital indicator in a single instrument
- Long service life
- Simple operation
- High contact rating, up to 12 A
- For panel mounting



Temperature controller with digital indicator, panel design, model SC58

Description

The model SC58 is a temperature controller for simple thermostat applications. It features simple operation and a high switch rating.

The design of the model SC58 enables the controller to be used as an alternative to the purely mechanical remote-reading thermometer (model TF58). In comparison to mechanical thermostats, the SC58 can handle significantly more switching cycles and thus has a higher operating life.

Standard version

Nominal size in mm

Front dimensions: 62 x 28 mm

Mounting dimensions: 58.2 x 25.2 mm

Sensor element

Pt100 resistance thermometer (standard) or PTC (selectable via software menu)

Measuring range

Pt100: -80 ... +400 °C

PTC: -50 ... +130 °C

Measuring accuracy

±1 K or ±0.5 % of measuring range

(greater value applies)

The actual value display can be an integer or have a resolution of 0.5 K or 0.1 K

Display

3-digit LED display, 13 mm high, colour red

Power supply

Model SC58.230:

AC 230 V, 50/60 Hz, current consumption max. 20 mA

Model SC58.024:

AC 12 ... 24 V, DC 16 ... 36 V, current consumption max. 30 mA

Switching output

Relays, 12 A resistive load, (2.2 A inductive load), 250 V, change-over contact

Electrical connections

Screw terminals for cable up to 1.5 mm²

Case

Plastic, black

Weight

approx. 200 g

Ingress protection

Front panel IP 50 (for panel mounting)

Terminals IP 00

Mounting option

Panel mounting with mounting bracket

Permissible ambient conditions

Storage temperature: -20 ... +70 °C

Operating temperature: 0 ... 50 °C

Relative humidity: max. 75 %, no condensation

CE conformity

■ EMC directive

2004/108/EG, EN 61326 Emission (group 1, class B) and interference immunity (industrial application)

■ Low voltage directive

2006/95/EG, EN 60730-1 and EN 60730-2-9

Connection diagram



