

Combistat, Mechanical Temperature Regulator Model SC15

WIKA Data Sheet TM 82.01

Applications

- Mechanical engineering
- Compressors
- Refrigeration industry
- Bakery-ovens

Features

- Temperature control and indication in one gauge
- High switching safety

Description

Test symbol

VDE, SEV, ÖVE, UL, CSA

Ingress protection

Case IP53, terminals IP00 (EN 60 529/IEC 529)

Nominal size

60, 80, 100

Accuracy class

±2% of measuring range at a reference temperature of 23°C on the case and capillary

Measuring ranges

-100°C ... 400°C

Accuracy class

±2% of measuring range at a reference temperature of 23°C on the case and capillary

Scale ranges

-100 ... 400 °C

Operating temperatures

Ambient: -40 ... +60 °C

Scale length

Max. 270 °



Combistat, Model SC1560

Scale design

White plastic with black print

Measuring principle

Bourdon tube system

Type of contact

- 1 adjustable change over switch
- 2 adjustable change over switches
- 2 together adjustable change over switches
- 1 adjustable and 1 fixed change over switch
- 1 fixed change over switch
- 2 fixed change over switches
- 3 fixed change over switches
- 4 fixed change over switches

Contacts

Microswitches

Switch rating

5 A non-inductive at max. 250V 40-60Hz

Standard switch differential

< 2% of measuring range

Electrical connection

0,8 x 6,3 mm terminal block or AMP plug connection

Case

Plastic, black

Capillary length

max. 5 m

Type of mounting

Panel mounting with clamp

(NS 100 with steel case with panel mounting flange)

Capillary outlet

Lower back

Capillary

Plastic covered -40 °C ... +120 °C

Copper braided -40 °C ... +350 °C

Stainless Steel -100 °C ... +400 °C

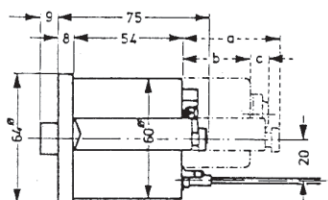
Optional extras

- Case steel
- Case square
- Panel mounting flange
- Protection cap IP 51 or IP 54
- Switch rating 10 A non-inductive at max. 250V 40-60Hz
- Other process connections

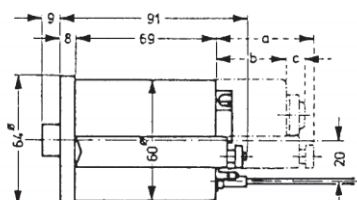
Dimensions in mm

Standard version

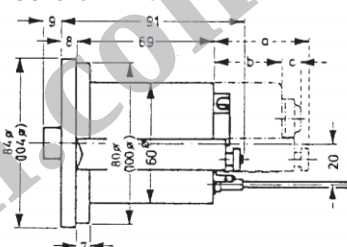
SC1560 with 1 contact



SC1560 with 2,3 or 4 contacts



SC1580
SC1510



Design of connection

Connection no. 1

Plain stem

Copper alloy

Length of stem variable

Diameter of stem d° = 6; 8; 8,5; 10



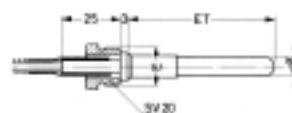
Connection no. 2

Male Nut R 3/8 (standard); R 1/4; M14x1,5

Copper alloy

Length of stem variable

Diameter of stem d° = 5; 6; 8; 8,5; 10



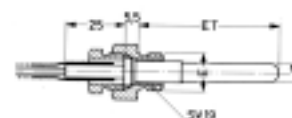
Connection no. 5

Union Nut R 3/8 with fitting M14x1,5, R3/8, R1/2, R3/4

Copper alloy

Length of stem variable

Diameter of stem d° = 5; 6; 8; 8,5; 10



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