Expansion thermometer with micro switch
Mechanical temperature regulator
Model SC15

Combistat

Applications

- Temperature regulation at mechanical engineering
- Temperature regulation in bakery-ovens
- Oil temperature regulation with compressors
- Temperature regulation in the refrigeration industry

Special features

- Temperature regulator and indication in one gauge
- High switching safety and life span

Combistat, model SC15

Description

Ingress protection
Case IP 53, terminals IP 00

Nominal size in mm
60, 80, 100

Accuracy class
Class 2 per EN 13190

Scale ranges
-100 ... 400 °C

Operating temperature
Ambient: -40 ... +60 °C

Scale length
Max. 270 ∢°

Dial
Aluminium, white, black lettering

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

Contacts
Micro switches

Switch rating
5 A non-inductive at max. 250 V, 40 … 60 Hz

Standard switch differential
< 2 % of measuring range

Connection, electrical
0.8 x 6.3 mm terminal block or AMP plug connection

Case
Plastic, black

Type of mounting
Panel mounting with clamp
(NS 100 with steel case with panel mounting flange)

Capillary
Plastic covered   -40 ... +120 °C
Copper braided   -40 ... +350 °C
Stainless steel   -100 ... +400 °C

System filling
Xylol, silicone oil, syltherm or nitrogen
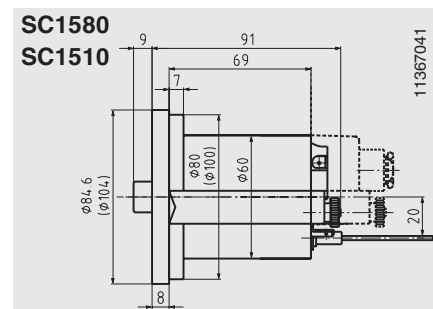
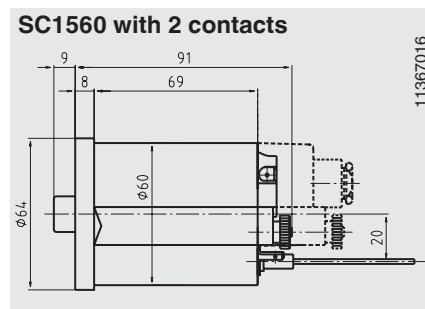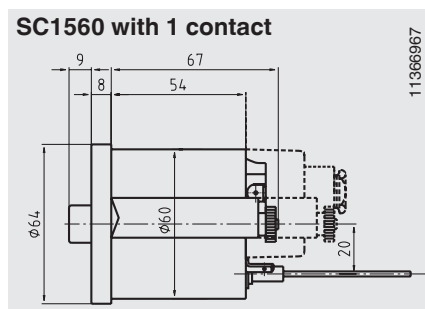**Capillary length**
Max. 10 m

Capillary outlet
Lower back (LB)

Options

■ Scale °F, °C/°F
■ Case steel
■ Case square version (45 x 45 mm, 72 x 72 mm, 96 x 96 mm)
■ Panel mounting flange
■ Protection cap IP 51 or IP 54
■ Switch rating 10 A non-inductive at max. 250 V, 40 ... 60 Hz
■ Other process connections
■ Test symbol UL, CSA
■ Case steel with 3 or 4 fixed contacts
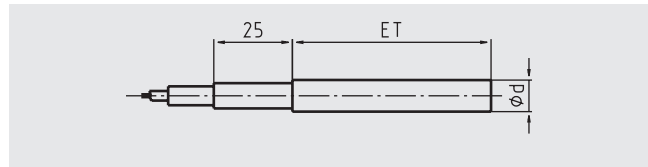 (model = SC00 ... F3/F4)

Dimensions in mm

Standard version

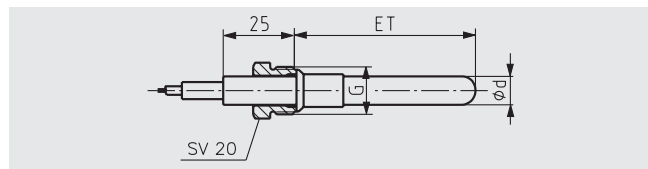| SC1560 with 1 contact	SC1560 with 2 contacts	SC1580 / SC1510

Design of connection

Plain stem (without thread), SF94
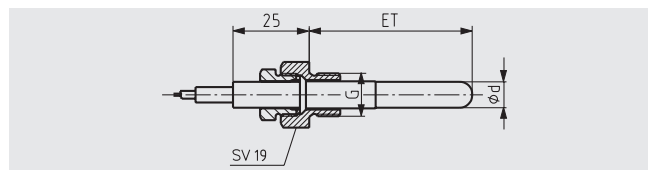Copper alloy
Stem length = variable
Diameter of stem Ø d = 6, 8, 8.5, 10

Male nut with cone sealing, SF91 / SV20
Copper alloy, G ½ B, G ⅜ B, M14 x 1.5
Stem length = variable
Diameter of stem Ø d = 6, 8, 8.5, 10

Male nut with fitting SF91 / SV19
M14 x 1.5, G ⅜ B, G ½ B, G ¾ B
Copper alloy
Stem length = variable
Diameter of stem Ø d = 6, 8, 8.5, 10

Ordering information

Model / Nominal size / Scale range / Type of contact / Switching points / Capillary / Capillary length / Design of connection / Options

The specifications given in this document represent the state of engineering at the time of publishing.
We reserve the right to make modifications to the specifications and materials.