Expansion thermometer with micro switch
Mechanical temperature regulator
Model SC15

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

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 °C

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

**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 ½ B, G ⅜ 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.