

Expansion thermometer Safety temperature controller Model SW15

WIKA data sheet TV 28.04



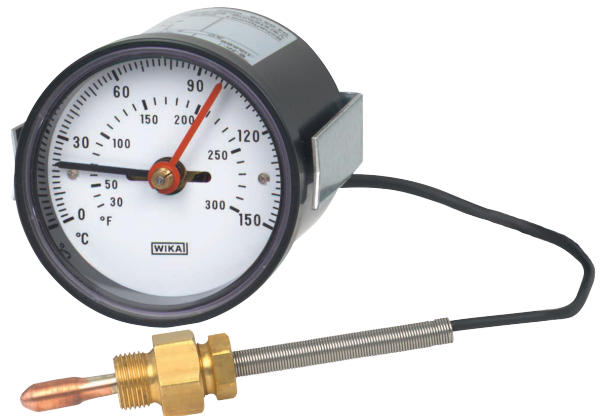
for further approvals
see page 5

Applications

- Temperature monitoring for water, oil and gas
- Compressors
- Steam generators
- Temperature controlling and limiting device for heat generation plants

Special features

- High switching reliability
- Temperature display and safety controller in one instrument
- Monitoring of measuring line breakages



Safety temperature controller, model SW15

Description

The safety temperature controller model SW15 is used for monitoring faults of a plant.

When a fixed switch point is reached, the micro switch triggers a switching operation. This action is carried out by means of a switching disc that is arranged at the pointer shaft.

Another switching operation is triggered after a measuring line breakage. As soon as the plant runs reliably again, the instrument switches back to the initial state.

Standard version

Nominal size in mm

60, 72 x 72

Indication accuracy

Class 2 per DIN EN 13190

Scale range

0 ... 400 °C

Permissible temperature

Ambient: -40 ... +60 °C

Dial

Aluminium, white, black lettering

Measuring principle

Bourdon tube system

Contact

Micro switch

Contact design

1 fixed changeover switch

Switch rating

5 A, AC 250 V

Connection, electrical

0.8 x 6.3 mm blade terminal or terminal connection

Case

Plastic, black

Mounting option

Panel mounting with mounting bracket

Ingress protection

Case IP 53, terminals IP 00

Capillary

Plastic coated max. +120 °C

Copper braided max. +350 °C

Stainless steel max. +400 °C

Length of the measuring line

Max. 5 m

Measuring line outlet

Lower back mount

Options

- Other nominal sizes NS 80, 100, 96 x 96
- Case sheet steel
- Panel mounting flange
- Protection cap IP 51 or IP 54
- Switch rating 10 A at AC 250 V
- Other connection designs
- Designs per DIN EN ISO 13485, medical applications on request

Special designs

Temperature controlling and limiting device for heat generation plants

Design tested in accordance with DIN EN 14597 and pressure equipment directive 97/23/EC/VdTÜV

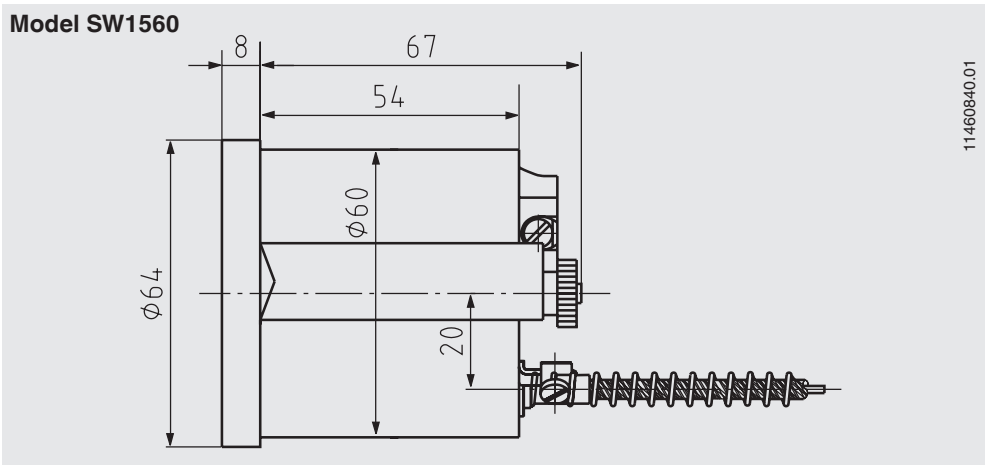
Permissible temperature sensors

Temperature sensor Model	Ø in mm	Material	Stem Model	Material	Operating media							
					Water		Oil		Air		unpressured T = 350 °C	unpressured T = 400 °C
					p = 16 bar T = 150 °C	p = 32 bar T = 350 °C	p = 16 bar T = 200 °C	p = 32 bar T = 350 °C	p = 16 bar T = 200 °C	p = 32 bar T = 350 °C		
SF91	6	Brass	-	-	x							
SF91	6	Brass	SH16	Brass	x							
SF91	6	Brass	SH16	1.4571	x			x		x		
SF91	8	Brass	-	-	x			x		x		
SF91	8	Brass	SH16	Brass	x			x		x		
SF91	8	Brass	SH16	1.4571	x	x		x	x	x		
SF91	10	Brass	-	-	x			x		x		
SF91	6	1.4571	-	-	x	x		x	x	x	x	
SF91	6	1.4571	SH16	1.4571	x	x		x	x	x	x	
SF91	8	1.4571	-	-	x	x		x	x	x	x	
SF91	8	1.4571	SH16	1.4571	x	x		x	x	x	x	
SF91	10	1.4571	-	-	x	x		x	x	x	x	

Dimensions in mm

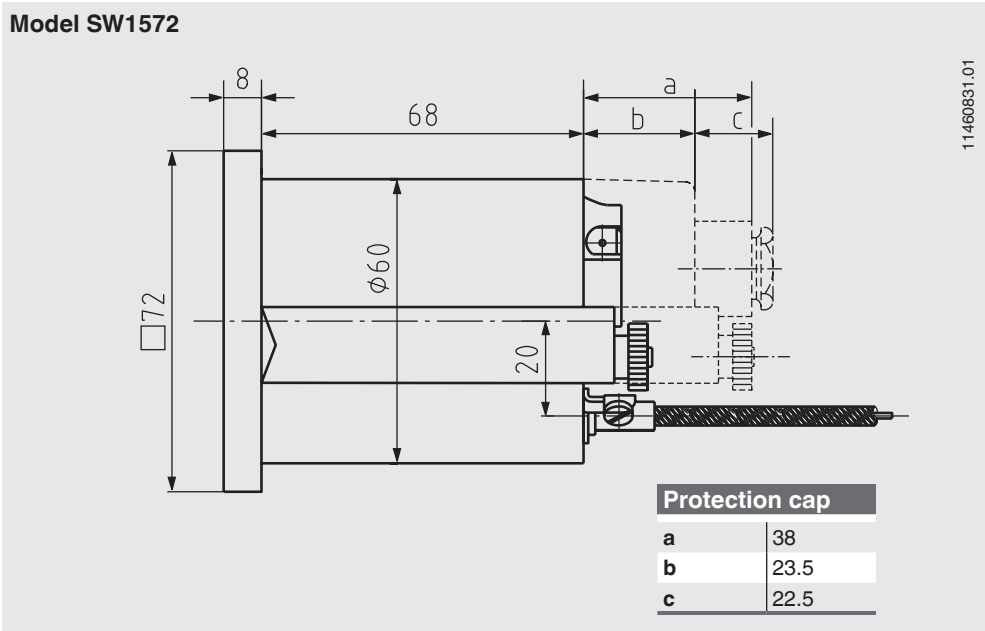
Standard version

Model SW1560



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Model SW1572

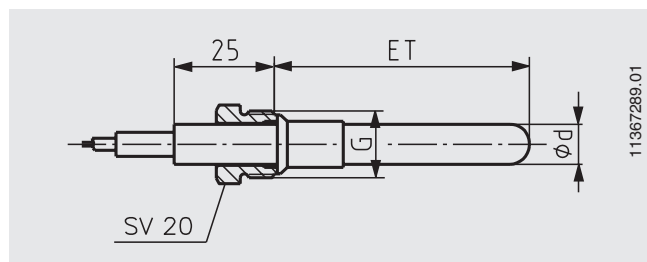


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Protection cap	
a	38
b	23.5
c	22.5

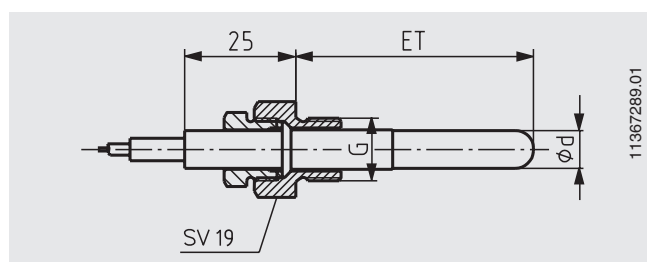
Connection designs

Connection design SF91 / SV20 with sealing cone



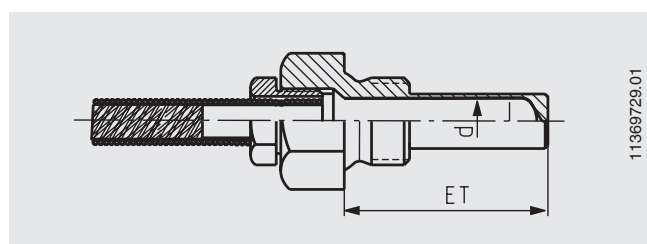
SV20 with M14 x 1.5, M16 x 1.5, M18 x 1.5
G 1/4 B, G 3/8 B, G 1/2 B
Copper alloy, stainless steel 1.4571
Insertion length ET = variable
Stem diameter $d = 6, 8, 10$ mm

Connection design SF91 / SV19 with loose threaded connection



SV19 with M14 x 1.5, M16 x 1.5, M18 x 1.5, M30 x 1.5
G 1/4 B, G 3/8 B, G 1/2 B, G 3/4 B, G 1 B
Copper alloy, stainless steel 1.4571
Insertion length ET = variable
Stem diameter $d = 6, 8, 10$ mm

Connection design SF91 / SH16 with protective sleeve



SH16 with G 3/8 B, G 1/2 B, G 3/4 B
Copper alloy, stainless steel 1.4571
Insertion length ET = variable
Stem diameter $d = 6, 8, 10$ mm

Approvals

- **UL**, safety (e.g. electr. safety, overpressure, ...), USA
- **GOST**, metrology/measurement technology, Russia
- **CRN**, safety (e.g. electr. safety, overpressure, ...), Canada

Certificates

- 2.2 test report per EN 10204 (e.g. state-of-the-art manufacturing, material proof, indication accuracy)
- 3.1 inspection certificate per EN 10204 (e.g. indication accuracy)

Approvals and certificates, see website

Ordering information

Model / Nominal size / Scale range / Contact design / Switching points / Measuring line / Length of the measuring line / Connection design / Options

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