

Expansion thermometer Model IFC

WIKA data sheet TM 80.01



for further approvals
see page 3

Applications

- Machine building
- Refrigeration industry
- Food and beverage industry
- Heating, ventilation, air-conditioning

Special features

- With capillary
- Universal application



Expansion thermometer model IFC

Description

The thermometer model IFC is an expansion thermometer for universal use in the areas of machine building, refrigeration industry, food and beverage industry as well as heating, air-conditioning and ventilation technology.

The temperature is measured by the extension of a thermometric liquid inside the capillary. Thermometers of this type are used for temperature measurement in locations that are difficult to access and for bridging long distances.

The IFC is an inexpensive and a very reliable measuring instrument due to its very simple construction and using a plastic case.

Standard version

Nominal size in mm

60, 80, 100, 72 x 72, 96 x 96

Indication accuracy

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

Scale range

-100 ... +400 °C

Permissible temperature

Case: -20 ... +70 °C

Measuring line:

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

Scale length

Max. 270 °

Dial

Plastic, white, black lettering

Measuring principle

Bourdon tube system

Capillary

Plastic coated or copper braided

Capillary copper or stainless steel 1.4571 depending on scale range

Length of the measuring line

Max. 5 m

Capillary outlet

Eccentric back mount

Case

Plastic (ABS)

Ingress protection

Round case: IP 54 per EN 60529 / IEC 529

Square case: IP 40 per EN 60529 / IEC 529

Mounting option

Panel mounting with mounting bracket

Options

- Case sheet steel
- Square construction of the case
- Panel mounting flange
- Other connection designs (see Technical Information IN 00.20)
- Other case dimensions (NS 37, 40, 42, 52)

Connection designs

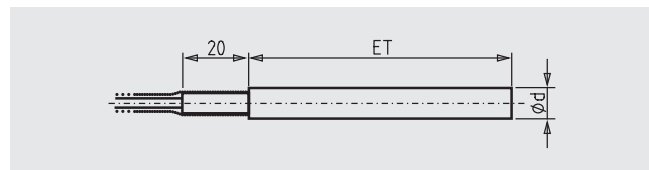
Standard version

Plain stem (without thread), SF94

Copper alloy

Insertion length = variable

Stem diameter $\varnothing d = 6, 8, 8.5, 10$ mm

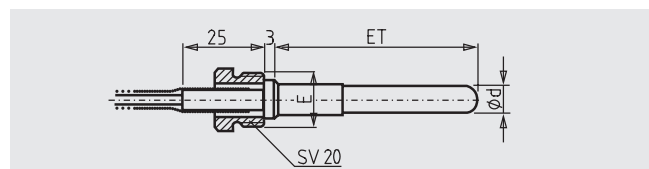


Rotatable connection, SF91/SV20

Copper alloy, R $\frac{3}{8}$

Insertion length = variable

Stem diameter $\varnothing d = 6, 8, 8.5, 10$ mm



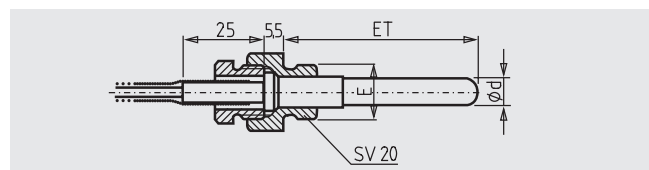
Rotatable connection with loose threaded connection

SF91/SV19 M14 x 1.5, R $\frac{3}{8}$, R $\frac{1}{2}$, R $\frac{3}{4}$

Copper alloy

Insertion length = variable

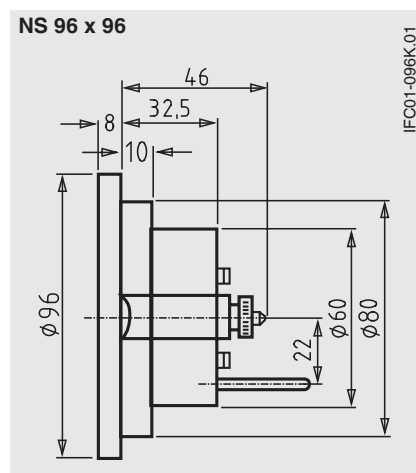
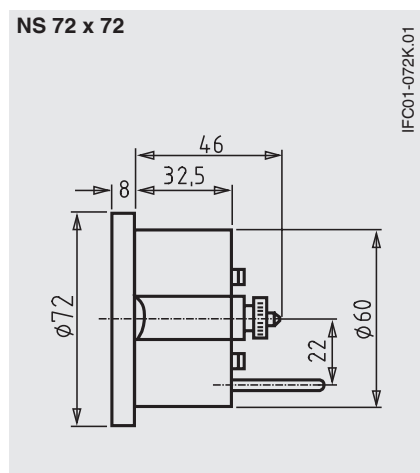
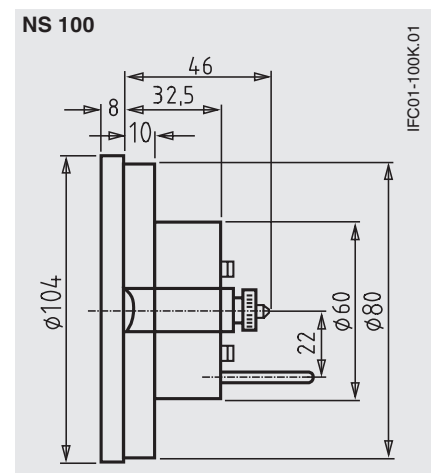
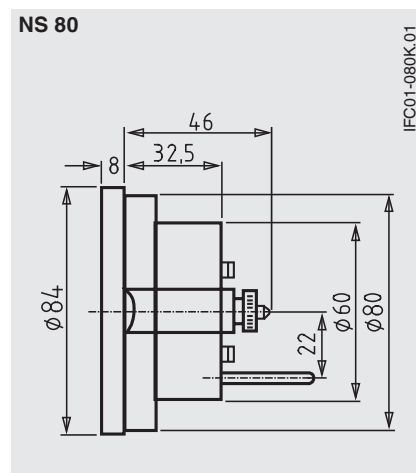
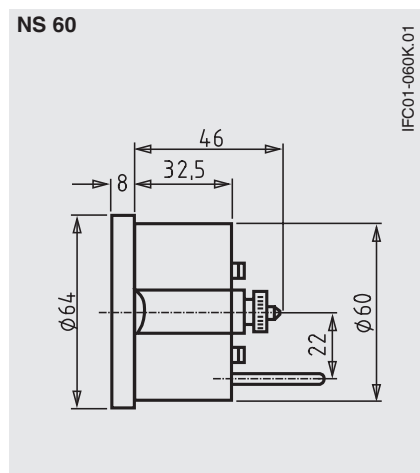
Stem diameter $\varnothing d = 6, 8, 8.5, 10$ mm



For further connection designs, see Technical information IN 00.20

Dimensions in mm

Standard version



Approvals

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

Certificates (option)

- 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 / Measuring line, measuring length / Connection design / Options

© 2008 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.
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.

