Expansion thermometer
Model IFC

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

Special features
- With capillary
- Universal application

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**
- 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)

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### Connection designs

#### Standard version
**Plain stem (without thread), SF94**
Copper alloy
Insertion length = variable
Stem diameter Ød = 6, 8, 8.5, 10 mm

#### Rotatable connection, SF91/SV20
Copper alloy, R %
Insertion length = variable
Stem diameter Ød = 6, 8, 8.5, 10 mm

#### Rotatable connection with loose threaded connection
SF91/SV19 M14 x 1.5, R %, R %, R %, R %
Copper alloy
Insertion length = variable
Stem diameter Ød = 6, 8, 8.5, 10 mm

For further connection designs, see Technical information IN 00.20
Dimensions in mm

Standard version

NS 60

NS 80

NS 100

NS 72 x 72

NS 96 x 96

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

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