

Description

Precision gasexpansion- thermometer, case with bayonet bezel.
Every angle type according DIN EN 13190

Accuracy

Class 1 according DIN EN 13190

Temperature range

Scale ranges according to DIN EN 13190 see backpage
(special scale ranges upon request)

Case

Case with bayonet bezel stainless steel 1.4301 / AISI304
Ingress protection IP 65 according to IEC 529
Instrument glass window
Nominal sizes 63, 80, 100, 160 mm

Pointer and dial

Aluminium dial varnished white / black lettering
Aluminium pointer varnished black

Process connection

Fixed external thread
Wetted parts of stainless steel 1.4571 / AISI316Ti

Standard options

- Alarm contacts (NG100 and NG160 case only)
- Oil- fillings for damping
- Maximum- and marking pointer

Additional options (upon request)

- Safety glass or polycarbonate window for food industry
- Adjustable Pointer
- Dual scales °C/°F, customer specific scales
- Special materials for wetted parts



Suggestions for installation of thermometers with fixed external thread

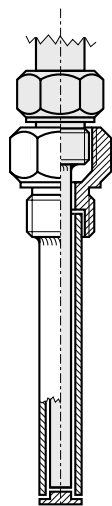
For further installation possibilities see chapter **protection tubes**

Protection tube

screw-in
type,
fabricated

according to
datasheet :

12.1

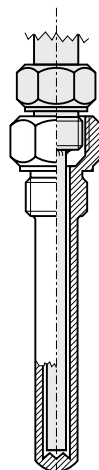


Protection tube

screw-in
type,
solid drilled

according to
datasheet :

12.1

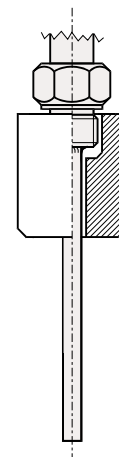


Sleeve

weld-in
type

according to
datasheet :

18.11

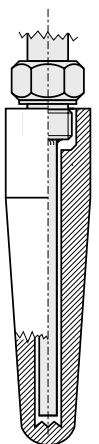


Protection tube

weld-in type,
solid drilled

according to
datasheet :

11.1



Gasexpansion- thermometer

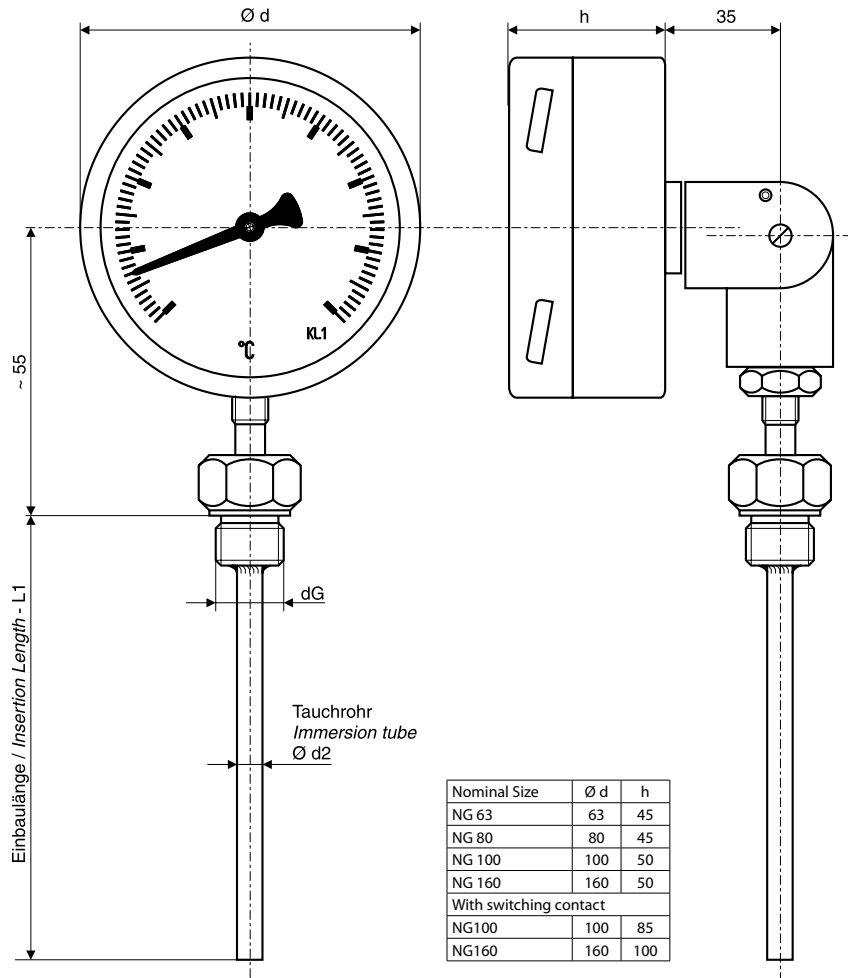
Datasheet 43.11

Case with bayonet bezel, with fixed external thread, every angle type

Gasexpansion- thermometers

| Case dimensions | |
|-----------------|---|
| Ordering code | C |
| NG 63 | 3 |
| NG 80 | 4 |
| NG 100 | 5 |
| NG 160 | 6 |

| Scale ranges | |
|------------------|-----|
| Ordering code | F G |
| - 40 ... + 40 °C | 4 9 |
| - 40 ... + 60 °C | 5 0 |
| - 30 ... + 50 °C | 5 2 |
| - 20 ... + 40 °C | 5 3 |
| - 20 ... + 60 °C | 5 4 |
| 0 ... + 60 °C | 5 8 |
| 0 ... + 80 °C | 5 9 |
| 0 ... + 100 °C | 6 0 |
| 0 ... + 120 °C | 6 1 |
| 0 ... + 160 °C | 6 2 |
| 0 ... + 200 °C | 6 3 |
| 0 ... + 250 °C | 6 4 |
| 0 ... + 300 °C | 6 5 |
| 0 ... + 350 °C | 6 6 |
| 0 ... + 400 °C | 6 7 |
| 0 ... + 500 °C | 6 8 |
| 0 ... + 600 °C | 6 9 |
| Special range | 9 9 |



| Nominal Size | $\varnothing d$ | h |
|------------------------|-----------------|-----|
| NG 63 | 63 | 45 |
| NG 80 | 80 | 45 |
| NG 100 | 100 | 50 |
| NG 160 | 160 | 50 |
| With switching contact | | |
| NG100 | 100 | 85 |
| NG160 | 160 | 100 |

| Additional equipment | |
|----------------------------|---|
| Ordering code | H |
| Without | 0 |
| Slow-acting contact | 1 |
| Contact magnetic system | 2 |
| Intrinsically safe contact | 3 |
| Electronic contact | 4 |
| Marking pointer | 5 |
| Maximum pointer | 6 |
| Siliconeoil filled | 7 |
| Glycerinoil filled | 8 |

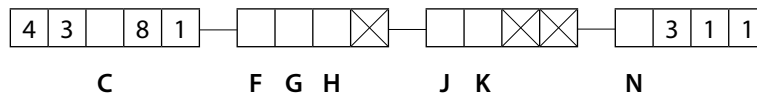
| Alarm contacts | | |
|----------------|------------------------|-----|
| Ordering code | J K | |
| No contact | 0 0 | |
| single contact | Closing contact | X 1 |
| | Opening contact | X 2 |
| | Change over contact | X 3 |
| double contact | 2 x Closing contact | 1 1 |
| | 2 x Opening contact | 2 2 |
| | 1. Closing/ 2. Opening | 1 2 |
| | 1. Opening/ 2. Closing | 2 1 |

| Thread | | |
|----------------|-------------|---|
| Ordering code | | N |
| G 1/2" | 27 mm flats | 1 |
| G 3/4" | 32 mm flats | 2 |
| G 1" | 41 mm flats | 3 |
| NPT 1/2" | 27 mm flats | 4 |
| NPT 3/4" | 32 mm flats | 5 |
| M 18 x 1,5 | 24 mm flats | 6 |
| M 20 x 1,5 | 27 mm flats | 7 |
| M 24 x 1,5 | 32 mm flats | 8 |
| Special thread | | 9 |

Ordering-code :

For ordering please fill out all empty digits in the order code on the right.

The code numbers for all free digits you find in the charts above.



For ordering please declare in plain text :

\varnothing Stem (d_2): 6mm 8mm 10mm 12mm Insertion length (L_1): mm Special - range (upon request):°C to °C Protectiontube acc. to datasheet: