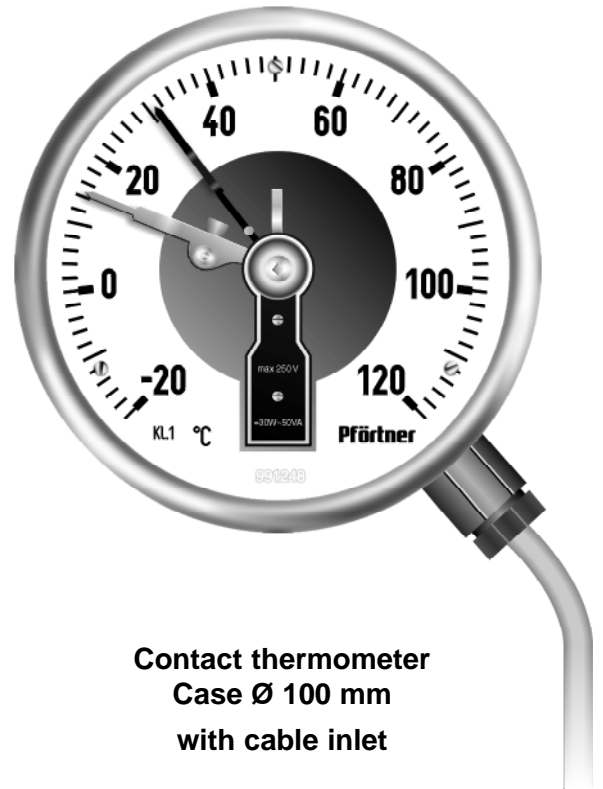


**Contact thermometer  
Case Ø 100 mm  
with connection box**



**Contact thermometer  
Case Ø 100 mm  
with cable inlet**

### Following instruments are available with contacts :

Pressure gauges with bayonet bezel Ø 100 and 160 mm

Gasexpansion and mercury filled thermometers with bayonet bezel Ø 100 and 160 mm

Bimetalic thermometers with bayonet bezel Ø NG 100 and NG 160  
(Only slow acting-, electronic- and intrinsically safe- contact)

Instruments with contact differ in their dimensions. See backpage for a dimension drawing.  
For electrical connection you can have wether a connection box or a fixed connection cable.

All contact instruments are manufactured according DIN 16 196.

### Technical Data :

Protection class	: IP 65
Ambient temperature	: -25°C to +70°C
Adjustment range	: 280° max.

Contacttype	ID - Letter	Contact rating	Switching-accuracy	intrinsically safe	Oil - filling	In bimetallic thermometers
Slow - acting contact	S	=10W ~18VA / 250V	ca.0,5 %	no	conditional*	yes
Contact magnetic system	M	=30W ~50VA / 250V	ca. 2 - 5 %	no	no	no
Elektronic contact	E	≤100 mA / 10...30VDC	ca. 0,5 %	no	yes	yes
Intrinsically safe contact	I	Operation with switch amplifier	ca. 0,5 %	yes	yes	yes
Microswitch	Z	5A / 250 VAC	ca. 2 - 5 %	no	no	no

\* with contact protection relais

**Hint :** For instruments with slow acting contacts we suggest the usage of a contact protection relais.

**Advantages :**

Higher contact rating • contact buffering • debounced • only low voltage inside the thermometer case

**Recommantation :**

If possible you should not use the contact types microswitch or magnetic systems. Their only advantage is the high contact rating. Instead you should use the other contact types combined with a switch amplifier. The advantage is higher switching accuracy and higher operational safety.

**Switching function :**

( pointer movement clockwise)

- 1 = closing contact
- 2 = opening contact
- 3 = change over contact

Example :

The combination S - 1 2 means :  
 ID Letter S = Slow acting contact  
 1 = the first contact is closing  
 2 = the second contact is opening

**Execution of housing for contact - thermometer, - pressure gauge**

- bayonet bezel
- Ø NG 100 and NG 160
- connection box or cable inlet

