

Description: Digitemp - Pt 100 / 4...20 mA transmitter with integrated LCD type indicator that works without auxiliary energy. The PFÖRTNER Digitemp can replace 3 instruments - it is a transmitter, a local indication and a Pt 100 sensor at the same time.

Temperature range : - 200 ... +600 °C

Accuracy : Display : 0,1 % ± 1 dgt.

Current Output 0,2 % plus sensor - tolerance

Tolerance Pt100 Cl. A @ 100 °C : 0,35 °C

Tolerance Pt100 Cl. B @ 100 °C : 0,80 °C

The tolerances for Pt 100 RTD's you can see in the chart "Values and Tolerances of Pt100 resistance thermometers" in the appendix.

Measuring ranges : see next page

Display : 3½ dgt. LCD -1999...+1999 digit

Output : Standard signal 4...20 mA

Load:
$$R_B = \frac{U_B - 9V}{20 \text{ mA}}$$

R_B = Load resistance, U_B = Supply Voltage

Supply voltage: 9...30 V / DC

Housing: with bajonet- ring ; Ø 100 or 80 mm; protection class IP 65; Case material : Stainless steel

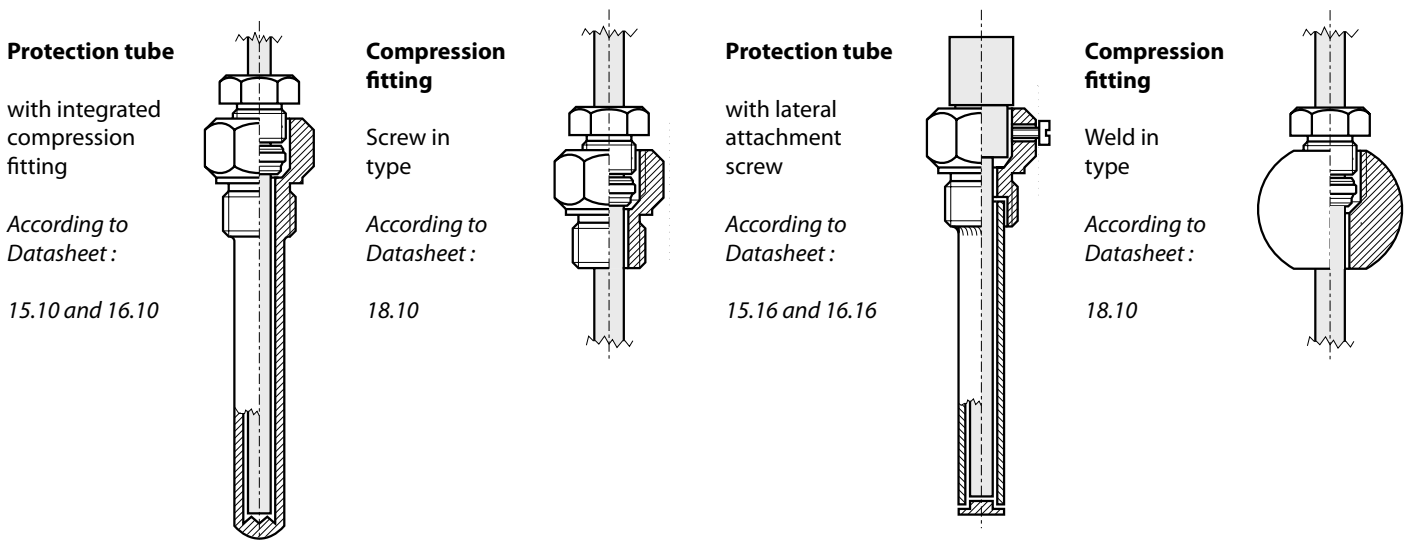
Processconnection: Plain stem for the direct installation with compression fittings or with special pockets

Typical applications: Industrie, petro-, chemical plants
food industrie ...etc.



Suggestions for installation of thermometers with plain stem

for further installation possibilities (according to DIN and special types, Flanges etc.) see chapter - Protection tubes



Transmitter / Indicator Type „Digitemp“

Vertical type with plain stem

Datasheet 831.10

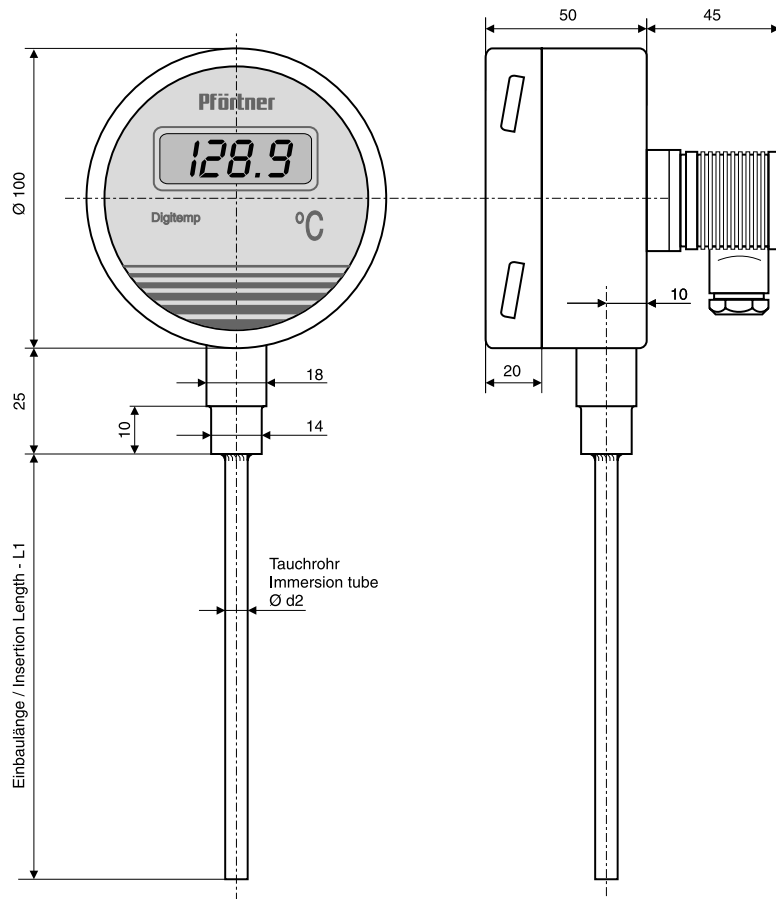
In- Process Digital - Indicators

Case nominal size (NG) / height (h)	
Ordering - code	D E
NG 80 / 45	2 0
NG 100 / 50	1 0

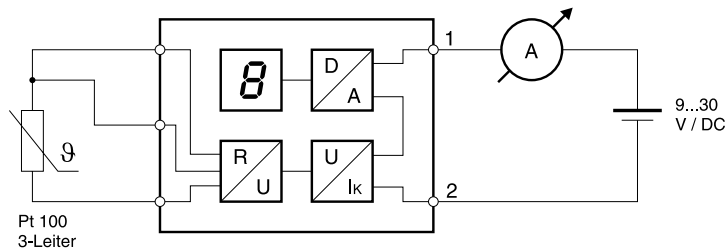
Measuring ranges	
Ordering - code	F G
- 200 ... + 200 °C	4 1
- 200 ... + 50 °C	4 2
- 50 ... + 50 °C	4 9
0 ... + 60 °C	5 8
0 ... + 100 °C	6 0
0 ... + 200 °C	6 3
0 ... + 300 °C	6 5
0 ... + 400 °C	6 7
Special - range	9 9

Please declare special ranges in plain language - see bottom

Sensors	
Ordering - code	H i
Pt100 DIN 751 Cl. B	1 1
Pt100 DIN 751 Cl. A	1 2



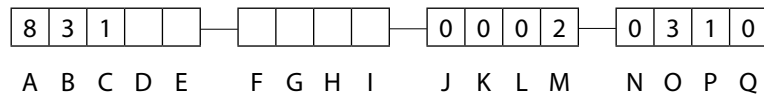
Block diagram



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 :

Special ranges (Min. - Measuring range 40 K) :

.....°C to°C correspond to 4...20 mA