

Transmitter / Indicator Type „Digitemp“

Vertical type with revolving external thread

Datasheet 831.12

In- Process Digital - Indicators

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 mm; protection class IP 65; Case material : Stainless steel

Process - connection : Revolving thread nipple for installation in protection tubes

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



Suggestions for installation of thermometers with plain stem

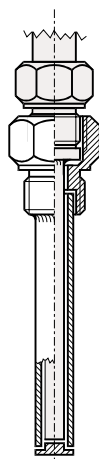
for further installation possibilities (according to DIN and special types, Flanges etc.) see chapter - Protection tubes

Protection tube

with male thread

solid drilled

acc. to datasheets
12.11

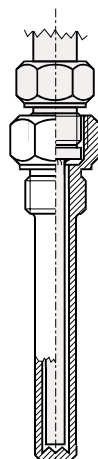


Protection tube

with male thread

fabricated type

acc. to datasheet
13.11

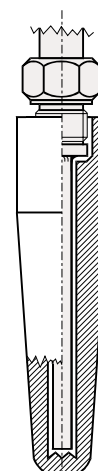


Protection tube

with male thread

solid drilled

acc. to datasheets
11.11
14.11



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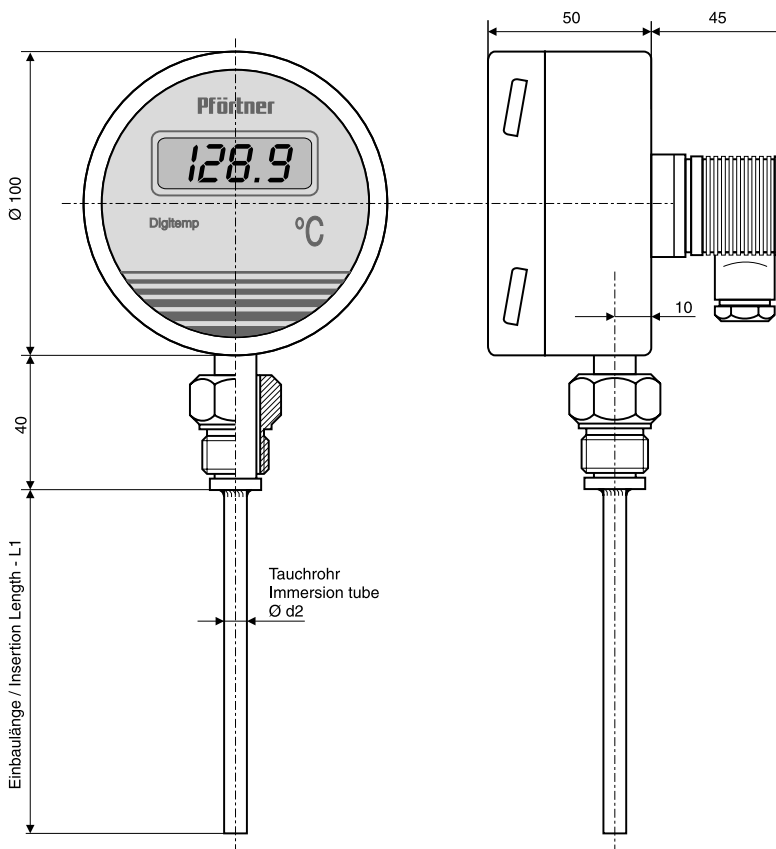
Case nominal size (NG) / height (h)	
Ordering - code	D E
NG 80 / 45	2 0
NG 100 / 50	1 0

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

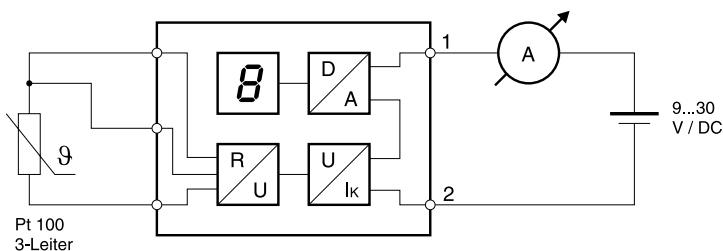
Please declare special ranges in plain language - see bottom

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

Threads	
Ordering - code	N
G 1/2" SW 27	1
G 3/4" SW 32	2
G 1" SW 41	3
M 18 x 1,5 SW 24	6
M 20 x 1,5 SW 27	7
M 24 x 1,5 SW 32	8
Special - thread	9



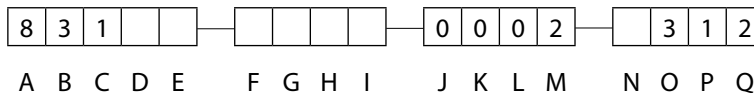
Block diagram



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 language :

Insertion Length (L₁) : mm

∅ Tauchrohr (d₂) 6mm 8mm 10mm

Special ranges (Min. - range 40 K)

..... °C bis °C

Thermowell acc. to

Datasheet :