

PRECISION DIGITAL THERMOMETER

battery powered



DRUCK & TEMPERATUR

Nominal size 100

Accuracy 0,1% ± 1 digit

The battery-operated digital thermometers with high accuracy consist of a platinum resistance thermometer and an LC display, which are built into a robust standard stainless steel thermometer housing.

Anwendungsgebiete

Industrial and plant construction

Refrigeration and food industry



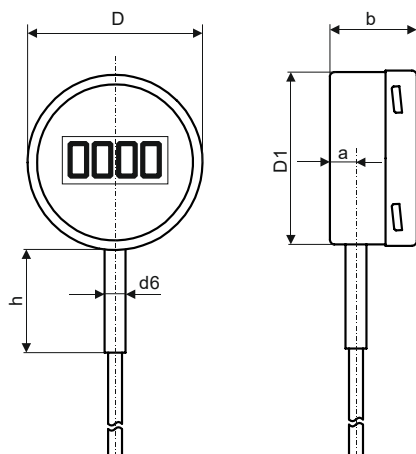
Type	7027	Options
Nominal size	100	
Symbol		Version with measuring device holder, measuring point marking, rotatable and swiveling design Ausführung mit Anschlusskabel zum Temperaturfühler
Connection position	radial bottom	Back centric or bottom angled
Accuracy	± 0,1% v.E. ± 1 digit	
Measuring ranges / Resolution	-50,0 / 250,0 °C - 0,1 K -99,9 / +550,0°C - 0,1 K	
Sensor	Platinum measuring resistor Pt1000 acc. to DIN EN 60751 in 4-wire-switch	
Measuring rate	Adjustable from 1 s up to 30 s	
Case	Bayonet case, CrNi-steel 1.4301, with pressure compensation element	Back flange Material: 316L (1.4404)
Window	Aluminium with PE-membrane keypad	
LC-display	4-digit, digit height 25 mm, Min/Max-function	
Battery	3,6 V Lithium battery AA 2600 mA, lifespan depending on use and measuring rate > 1 year, exchangeable	
Process connection and sensor types	See page 3	stems, others for food, bio and pharmaceutical industries
Stem material	CrNi-steel 1.4571	Others on request
Stem -Ø	6, 8 or 10 mm	Others on request
Stem length	Standard: max. 2,5 m	
stat. pressure	max. 25 bar	
Temperatures	Ambient, operation: -10°C...+60°C, storage: -20°C...+70°C	
Protection	IP65 acc. to DIN EN 60 529	
optional version with connection cable	cable output bottom or centric back, Cable design: up to + 180 ° C made of silicone rubber up to 250 ° C made of PFA different fastening devices depending on the cable outlet (front edge, rear edge)	

Type 7027

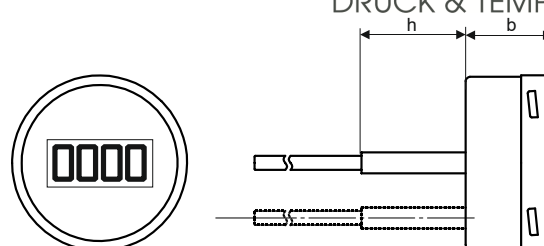
Dimensional drawings Dimensions in mm



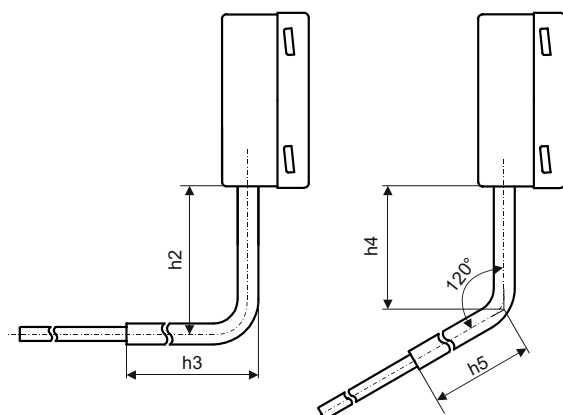
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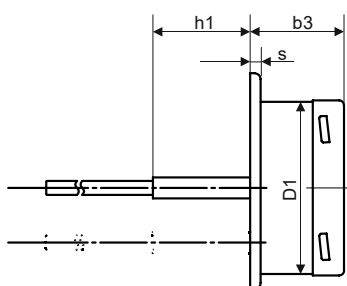
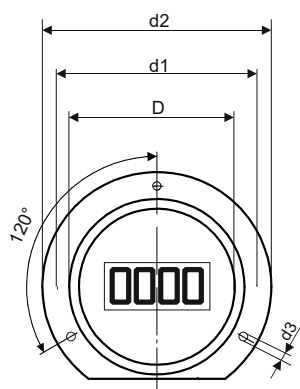
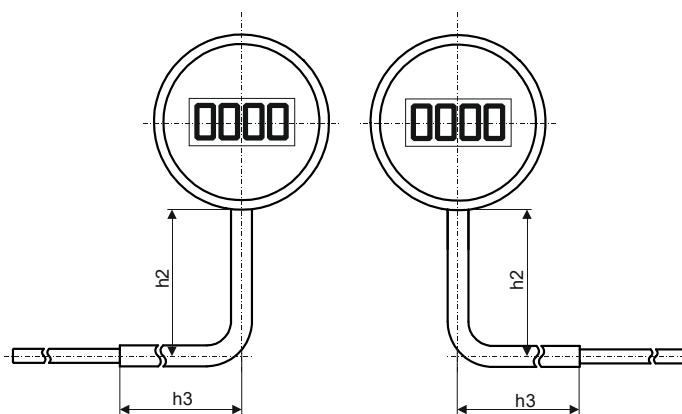
Vertical bottom stem position



Back connection



Angular bottom stem position



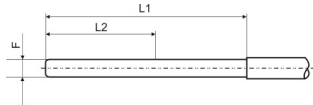
With lower flange

NS	a	b	b3	D	D1	d1	d2	d3	d6	h	h1	h2	h3	h4	h5	s	Weight
100	15	50	53,5	101	99	116	132	4,8	12	0	56,5	85	120	70	120	6	0,46 kg

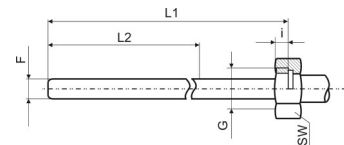
Type **Process connection** **Form acc. DIN 13190**

Thread - Dimensions

G1 Without screw fitting, plain stem Form 1



G3 Union nut Form 5

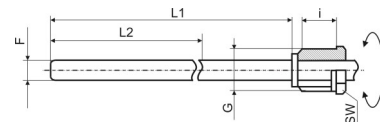


G	SW	i
G1/2	27	10
G3/4	32	12
M20 x1,5	27	10
M24 x1,5	32	12
M27 x 2	32	12

Suitable thermowell models

Form 4.1
Form 4.1F
Form 8
Form 9

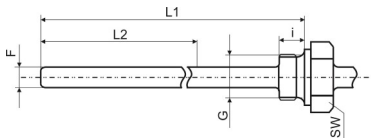
G4 Male thread turnable Form 4



G	SW	i
G1/2B	22	20
G3/4B	27	23
M18x1,5	22	14
M20x1,5	22	20

Form 4
Form 4F
Form 5
Form 6 und 7

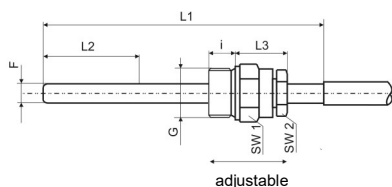
G4.1 Male thread rigid Form 6
Form 7



G	SW	i
G1/2B	27	14
G3/4B	32	16
1/2"NPT	27	19
3/4"NPT	27	19
M18x1,5	24	14
M20x1,5	27	14

Form 4
Form 4F
Form 5
Form 6 und 7

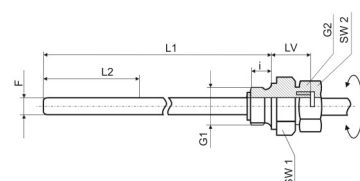
G5 Male thread Form 2
Compression fitting Form 3



G	SW1	SW2	i
G1/2B	27	22	14
G3/4B	32	22	16
1/2"NPT	27	22	19
3/4"NPT	27	22	19
M20x1,5	27	22	14

Form 4
Form 4F
Form 5
Form 6 und 7

G6 Male thread turnable / double male adapter -
Lv = 28 mm



G	G2	SW1	SW2	a
G1/2B	G1/2B	27	27	14
G3/4B	G1/2B	32	27	16
1/2"NPT	G1/2B	27	27	19
3/4"NPT	G1/2B	27	27	19
M20x1,5	M20x1,5	27	27	14
M24x1,5	M20x1,5	32	27	14
M27x1,5	M20x1,5	32	27	16

Form 4
Form 4F
Form 5
Form 6 und 7