

Bimetal stainless steel thermometers

Bimetal thermometers for chemical applications



Bimetal stainless steel thermometers

Application

For corrosive media. Suitable for a great variety of industrial applications.

Type
D3

Nominal size
63 – 80 – 100

Measuring element
Bimetal helix

Accuracy class
1 (EN 13190)

Ranges °C
-20/60, 0/60, 0/120, 0/160

Working temperature
Full scale value

Operating pressure at thermowell
Max. 6 bar

Protection
IP 43 (EN 60529)

Standard version

Connection
Stem stainless steel 1.4571, Ø 8 mm, plain, adjustable

Mounting position
NG 63 – 80 – 100 centre back
NG 63 – 100 bottom

Dial
Aluminium, white - dial marking black

Pointer
Aluminium, black

Housing and push on bezel
Stainless steel 1.4301

Front glass
Instrument glass

Options

- Thermowell G¹/₂B, stainless steel 1.4571
- Other connection types
- Other ranges
- Other stem lengths

Refer to page 193–194 for prices.



Bimetal thermometers for chemical applications

Application

For corrosive media. Meets exacting measuring demands, e.g. in chemical, process technology and food industry applications.

Type
D4

Nominal size
63 – 100 – 160

Measuring element
Bimetal helix

Accuracy class
1 (EN 13190)

Ranges °C
-20/60, 0/60, 0/120, 0/160

Working temperature
Continuous: full scale value
Short-term: 1.1 x full scale value

Operating pressure at thermowell
Max. 6 bar

Protection
IP 65 (EN 60529)

Standard version

Connection
Stem stainless steel 1.4571, Ø 8 mm, plain, closed

Mounting position
NG 63 – 100 – 160 centre back
NG 63 – 100 – 160 bottom

Dial
Aluminium, white, dial marking black

Pointer
Aluminium, black

Housing
Stainless steel 1.4301

Bayonet type bezel
Stainless steel 1.4301

Front glass
Instrument glass

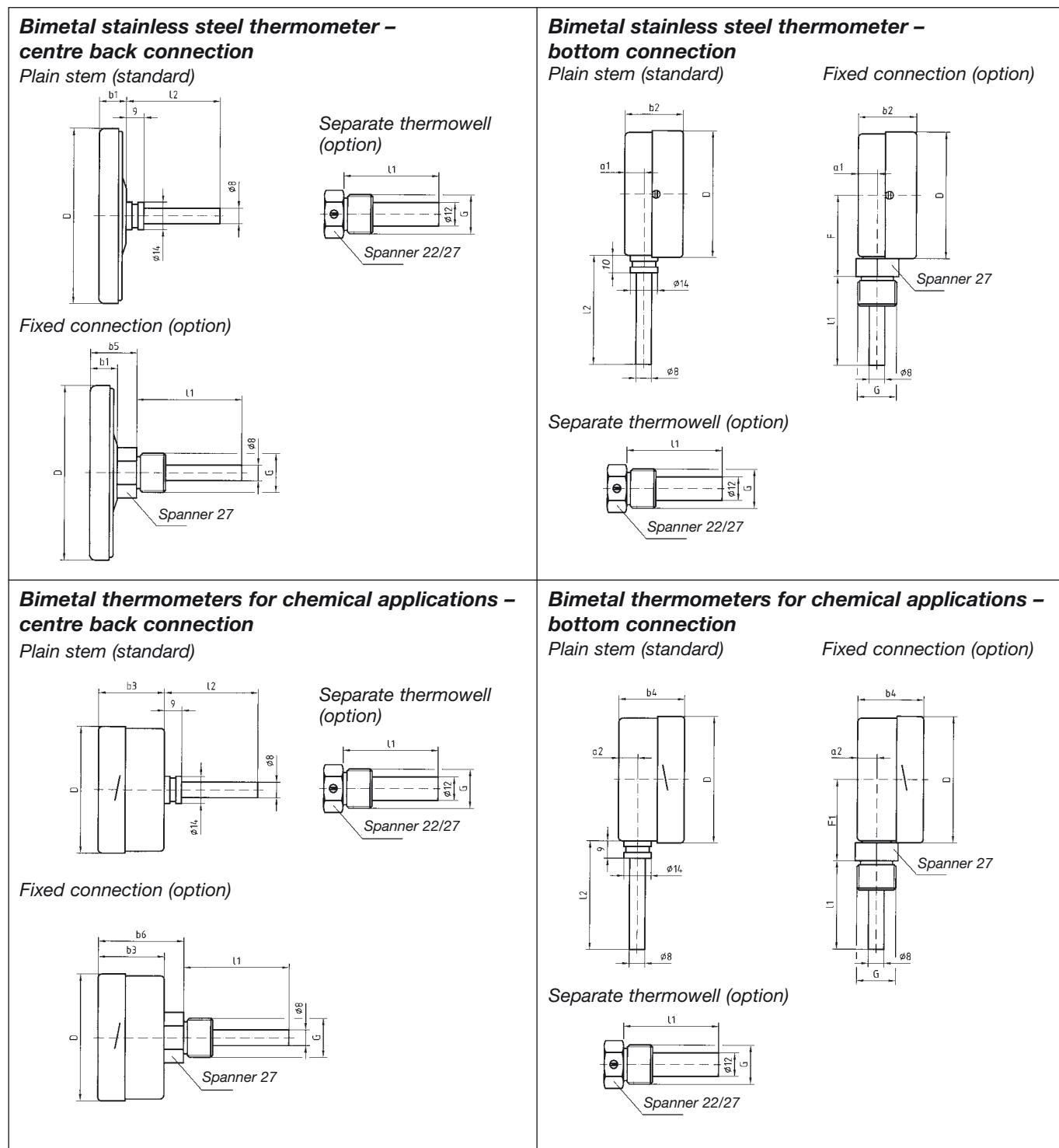


Options

- Thermowell G¹/₂B, stainless steel 1.4571
- Grooved nut connection according to DIN 11851
- Other connection designs
- Other ranges
- Other stem lengths
- Laminated safety front glass
- Glycerine filling (type D4 only)
- Rotatable/tiltable housing (type D4 only)
- 3-hole fixing, panel mounting bezel
- Back flange
- Special materials
- Electrical contacts

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Housing types and dimensions

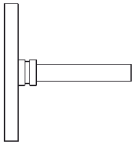
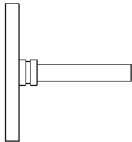
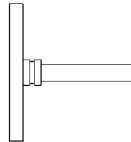
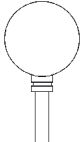
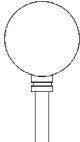


Dimensions (mm)

Nominal size (NG)	D	a1	a2	b1	b2	b3	b4	b5	b6	F	F1	G	l1	l2
63	63	10	15.5	13	34	32	45	27	62	46.5	58.5	G ¹ / ₂ B	45	49
80	80	-	-	14	-	-	-	28	-	-	-	G ¹ / ₂ B	63	67
100	100	10	17.5	15	36	27.5	49.5	29	57.5	65	77.5	G ¹ / ₂ B	100	104
160	160	10	15.5	18	-	34	48	32	64	95	107.5	G ¹ / ₂ B	150	154
													200	204

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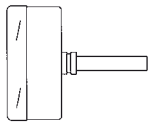
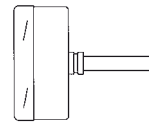
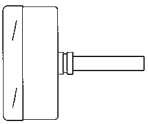
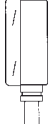

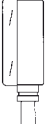
DG: H

Type	BiTh 63 E D312	BiTh 80 E D312	BiTh 100 E D312	BiTh 63 E D302	BiTh 100 E D302
Version					
Housing-Ø	63	80	100	63	100
Housing	Stainless steel 1.4301 with push on bezel 1.4301, instrument front glass				
Stem	Stainless steel 1.4571, Ø 8 mm				
Connection	Plain stem (without thermowell)*				
Accuracy class	Class 1 according to EN 13190				
Range	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C
For thermowell with length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
63 mm	66107312	66207312	66307312	66107302	66307302
100 mm	66108312	66208312	66308312	66108302	66308302
150 mm	66109312	66209312	66309312	66109302	66309302
200 mm	66110312	66210312	66310312	66110302	66310302
Range	0/60 °C	0/60 °C	0/60 °C	0/60 °C	0/60 °C
For thermowell with length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
63 mm	66132312	66232312	66332312	66132302	66332302
100 mm	66133312	66233312	66333312	66133302	66333302
150 mm	66134312	66234312	66334312	66134302	66334302
200 mm	66135312	66235312	66335312	66135302	66335302
Range	0/120 °C	0/120 °C	0/120 °C	0/120 °C	0/120 °C
For thermowell with length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
63 mm	66147312	66247312	66347312	66147302	66347302
100 mm	66148312	66248312	66348312	66148302	66348302
150 mm	66149312	66249312	66349312	66149302	66349302
200 mm	66150312	66250312	66350312	66150302	66350302
Range	0/160 °C	0/160 °C	0/160 °C	0/160 °C	0/160 °C
For thermowell with length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
63 mm	66152312	66252312	66352312	66152302	66352302
100 mm	66153312	66253312	66353312	66153302	66353302
150 mm	66154312	66254312	66354312	66154302	66354302
200 mm	66155312	66255312	66355312	66155302	66355302

*Refer to pages 199/200 for other connection types.
Refer to pages 200–202 for options and additional costs.

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DG: H

Type	BiTh 63 Ch D412	BiTh 100 Ch D412	BiTh 160 Ch D412	BiTh 63 Ch D402	BiTh 100 Ch D402	BiTh 160 Ch D402
Type						
Housing-Ø	63	100	160	63	100	160
Housing	Stainless steel 1.4301 with bayonet type bezel, instrument front glass					
Stem	Stainless steel 1.4571, Ø 8 mm					
Connection	Plain stem (without thermowell)*					
Accuracy class	Class 1 according to EN 13190					
Range	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C
For thermowell with length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
63 mm	66607412	66807412	66907412	66607402	66807402	66907402
100 mm	66608412	66808412	66908412	66608402	66808402	66908402
150 mm	66609412	66809412	66909412	66609402	66809402	66909402
200 mm	66610412	66810412	66910412	66610402	66810402	66910402
Range	0/60 °C	0/60 °C	0/60 °C	0/60 °C	0/60 °C	0/60 °C
For thermowell with length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
63 mm	66632412	66832412	66932412	66632402	66832402	66932402
100 mm	66633412	66833412	66933412	66633402	66833402	66933402
150 mm	66634412	66834412	66934412	66634402	66834402	66934402
200 mm	66635412	66835412	66935412	66635402	66835402	66935402
Range	0/120 °C	0/120 °C	0/120 °C	0/120 °C	0/120 °C	0/120 °C
For thermowell with length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
63 mm	66647412	66847412	66947412	66647402	66847402	66947402
100 mm	66648412	66848412	66948412	66648402	66848402	66948402
150 mm	66649412	66849412	66949412	66649402	66849402	66949402
200 mm	66650412	66850412	66950412	66650402	66850402	66950402
Range	0/160 °C	0/160 °C	0/160 °C	0/160 °C	0/160 °C	0/160 °C
For thermowell with length L1	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
63 mm	66652412	66852412	66952412	66652402	66852402	66952402
100 mm	66653412	66853412	66953412	66653402	66853402	66953402
150 mm	66654412	66854412	66954412	66654402	66854402	66954402
200 mm	66655412	66855412	66955412	66655402	66855402	66955402

*Refer to pages 199/200 for other connection types.
Refer to pages 200–202 for options and additional costs.