



Bimetal thermometer BiTh Ch



Benefits

- Ideal for hygienic processes
- Accuracy class 1 as per EN 13190
- For temperatures of the medium of up to 160 °C
- Process connection centre back or bottom or threads various thermowells

Application

For corrosive media. Meets high measuring demands, e.g. in process engineering as well as chemical and food industry applications.

Technical specifications

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

Application area

Continuous load: Full scale value

Short-term: 1.1 x full scale value

Operating pressure at stem

Max. 6 bar

Degree of protection

IP 65 (EN 60529)

Standard version

Connection

Stem: Stainless steel 316 Ti, Ø 8 mm, plain

Mounting position

Bottom or centre back

Dial

Aluminium, white

Scaling black

Pointer

Aluminium, black

Housing

Stainless steel 304

Bayonet type bezel

Stainless steel 304

Window

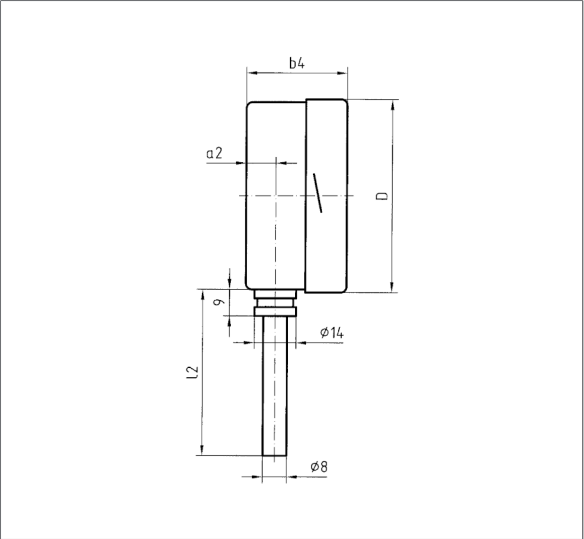
Instrument glass

Options

- Thermowell G½B, stainless steel 316 Ti/316 L
- Grooved nut connection as per DIN 11851
- Other connection designs
- Other ranges
- Other stem lengths
- Laminated safety glass window
- Glycerine filling
- Every angle version
- Back flange
- 3-hole fixing, panel mounting bezel
- Special materials

Technical drawings

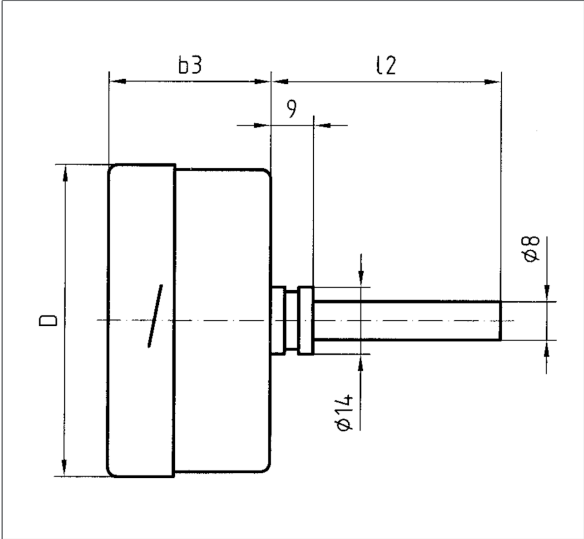
bottom connection, plain



Dimensions (mm)

NG	a2	b4	D	l2
63	15,5	45	63	67
63	15,5	45	63	104
63	15,5	45	63	154
63	15,5	45	63	204
100	17,5	49,5	100	67
100	17,5	49,5	100	104
100	17,5	49,5	100	154
100	17,5	49,5	100	204
160	15,5	48	160	67
160	15,5	48	160	104
160	15,5	48	160	154
160	15,5	48	160	204

centre back connection, plain



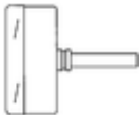
Dimensions (mm)

NG	b3	D	l2
63	32	63	67
63	32	63	67
63	32	63	67
63	32	63	67
100	27,5	100	104
100	27,5	100	104
100	27,5	100	104
100	27,5	100	104
100	27,5	100	104
160	34	160	154
160	34	160	154
160	34	160	154
160	34	160	154



Versions

BiTh 63 Ch

	Housing ∅	Mounting position	Range	For thermowell with length L1	Type	Part no.
	63 mm	Bottom	-20/+60 °C	63 mm	BiTh 63 Ch D402	66607402
	63 mm	Bottom	-20/+60 °C	100 mm	BiTh 63 Ch D402	66608402
	63 mm	Bottom	-20/+60 °C	150 mm	BiTh 63 Ch D402	66609402
	63 mm	Bottom	-20/+60 °C	200 mm	BiTh 63 Ch D402	66610402
	63 mm	Bottom	0/60 °C	63 mm	BiTh 63 Ch D402	66632402
	63 mm	Bottom	0/60 °C	100 mm	BiTh 63 Ch D402	66633402
	63 mm	Bottom	0/60 °C	150 mm	BiTh 63 Ch D402	66634402
	63 mm	Bottom	0/60 °C	200 mm	BiTh 63 Ch D402	66635402
	63 mm	Bottom	0/120 °C	63 mm	BiTh 63 Ch D402	66647402
	63 mm	Bottom	0/120 °C	100 mm	BiTh 63 Ch D402	66648402
	63 mm	Bottom	0/120 °C	150 mm	BiTh 63 Ch D402	66649402
	63 mm	Bottom	0/120 °C	200 mm	BiTh 63 Ch D402	66650402
	63 mm	Bottom	0/160 °C	63 mm	BiTh 63 Ch D402	66652402
	63 mm	Bottom	0/160 °C	100 mm	BiTh 63 Ch D402	66653402
	63 mm	Bottom	0/160 °C	150 mm	BiTh 63 Ch D402	66654402
	63 mm	Bottom	0/160 °C	200 mm	BiTh 63 Ch D402	66655402
	63 mm	Centre back	-20/+60 °C	63 mm	BiTh 63 Ch D412	66607412
	63 mm	Centre back	-20/+60 °C	100 mm	BiTh 63 Ch D412	66608412
	63 mm	Centre back	-20/+60 °C	150 mm	BiTh 63 Ch D412	66609412
	63 mm	Centre back	-20/+60 °C	200 mm	BiTh 63 Ch D412	66610412
	63 mm	Centre back	0/60 °C	63 mm	BiTh 63 Ch D412	66632412
	63 mm	Centre back	0/60 °C	100 mm	BiTh 63 Ch D412	66633412
	63 mm	Centre back	0/60 °C	150 mm	BiTh 63 Ch D412	66634412
	63 mm	Centre back	0/60 °C	200 mm	BiTh 63 Ch D412	66635412
	63 mm	Centre back	0/120 °C	63 mm	BiTh 63 Ch D412	66647412
	63 mm	Centre back	0/120 °C	100 mm	BiTh 63 Ch D412	66648412

Blue part no. = in-stock items



Housing ∅	Mounting position	Range	For thermowell with length L1	Type	Part no.
63 mm	Centre back	0/120 °C	150 mm	BiTh 63 Ch D412	66649412
63 mm	Centre back	0/120 °C	200 mm	BiTh 63 Ch D412	66650412
63 mm	Centre back	0/160 °C	63 mm	BiTh 63 Ch D412	66652412
63 mm	Centre back	0/160 °C	100 mm	BiTh 63 Ch D412	66653412
63 mm	Centre back	0/160 °C	150 mm	BiTh 63 Ch D412	66654412
63 mm	Centre back	0/160 °C	200 mm	BiTh 63 Ch D412	66655412

Blue part no. = in-stock items

BiTh 100 Ch

Housing ∅	Mounting position	Range	For thermowell with length L1	Type	Part no.
100 mm	Bottom	-20/+60 °C	63 mm	BiTh 100 Ch D402	66807402
100 mm	Bottom	-20/+60 °C	100 mm	BiTh 100 Ch D402	66808402
100 mm	Bottom	-20/+60 °C	150 mm	BiTh 100 Ch D402	66809402
100 mm	Bottom	-20/+60 °C	200 mm	BiTh 100 Ch D402	66810402
100 mm	Bottom	0/60 °C	63 mm	BiTh 100 Ch D402	66832402
100 mm	Bottom	0/60 °C	100 mm	BiTh 100 Ch D402	66833402
100 mm	Bottom	0/60 °C	150 mm	BiTh 100 Ch D402	66834402
100 mm	Bottom	0/60 °C	200 mm	BiTh 100 Ch D402	66835402
100 mm	Bottom	0/120 °C	63 mm	BiTh 100 Ch D402	66847402
100 mm	Bottom	0/120 °C	100 mm	BiTh 100 Ch D402	66848402
100 mm	Bottom	0/120 °C	150 mm	BiTh 100 Ch D402	66849402
100 mm	Bottom	0/120 °C	200 mm	BiTh 100 Ch D402	66850402
100 mm	Bottom	0/160 °C	63 mm	BiTh 100 Ch D402	66852402
100 mm	Bottom	0/160 °C	100 mm	BiTh 100 Ch D402	66853402
100 mm	Bottom	0/160 °C	150 mm	BiTh 100 Ch D402	66854402
100 mm	Bottom	0/160 °C	200 mm	BiTh 100 Ch D402	66855402
100 mm	Centre back	-20/+60 °C	63 mm	BiTh 100 Ch D412	66807412
100 mm	Centre back	-20/+60 °C	100 mm	BiTh 100 Ch D412	66808412
100 mm	Centre back	-20/+60 °C	150 mm	BiTh 100 Ch D412	66809412
100 mm	Centre back	-20/+60 °C	200 mm	BiTh 100 Ch D412	66810412

Blue part no. = in-stock items



Housing ^ø	Mounting position	Range	For thermowell with length L1	Type	Part no.
100 mm	Centre back	0/60 °C	63 mm	BiTh 100 Ch D412	66832412
100 mm	Centre back	0/60 °C	100 mm	BiTh 100 Ch D412	66833412
100 mm	Centre back	0/60 °C	150 mm	BiTh 100 Ch D412	66834412
100 mm	Centre back	0/60 °C	200 mm	BiTh 100 Ch D412	66835412
100 mm	Centre back	0/120 °C	63 mm	BiTh 100 Ch D412	66847412
100 mm	Centre back	0/120 °C	100 mm	BiTh 100 Ch D412	66848412
100 mm	Centre back	0/120 °C	150 mm	BiTh 100 Ch D412	66849412
100 mm	Centre back	0/120 °C	200 mm	BiTh 100 Ch D412	66850412
100 mm	Centre back	0/160 °C	63 mm	BiTh 100 Ch D412	66852412
100 mm	Centre back	0/160 °C	100 mm	BiTh 100 Ch D412	66853412
100 mm	Centre back	0/160 °C	150 mm	BiTh 100 Ch D412	66854412
100 mm	Centre back	0/160 °C	200 mm	BiTh 100 Ch D412	66855412

Blue part no. = in-stock items

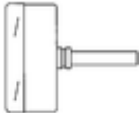
BiTh 160 Ch

Housing ^ø	Mounting position	Range	For thermowell with length L1	Type	Part no.
160 mm	Bottom	-20/+60 °C	63 mm	BiTh 160 Ch D402	66907402
160 mm	Bottom	-20/+60 °C	100 mm	BiTh 160 Ch D402	66908402
160 mm	Bottom	-20/+60 °C	150 mm	BiTh 160 Ch D402	66909402
160 mm	Bottom	-20/+60 °C	200 mm	BiTh 160 Ch D402	66910402
160 mm	Bottom	0/60 °C	63 mm	BiTh 160 Ch D402	66932402
160 mm	Bottom	0/60 °C	100 mm	BiTh 160 Ch D402	66933402
160 mm	Bottom	0/60 °C	150 mm	BiTh 160 Ch D402	66934402
160 mm	Bottom	0/60 °C	200 mm	BiTh 160 Ch D402	66935402
160 mm	Bottom	0/120 °C	63 mm	BiTh 160 Ch D402	66947402
160 mm	Bottom	0/120 °C	100 mm	BiTh 160 Ch D402	66948402
160 mm	Bottom	0/120 °C	150 mm	BiTh 160 Ch D402	66949402
160 mm	Bottom	0/120 °C	200 mm	BiTh 160 Ch D402	66950402
160 mm	Bottom	0/160 °C	63 mm	BiTh 160 Ch D402	66952402
160 mm	Bottom	0/160 °C	100 mm	BiTh 160 Ch D402	66953402

Blue part no. = in-stock items



Housing ^ø	Mounting position	Range	For thermowell with length L1	Type	Part no.
160 mm	Bottom	0/160 °C	150 mm	BiTh 160 Ch D402	66954402
160 mm	Bottom	0/160 °C	200 mm	BiTh 160 Ch D402	66955402
160 mm	Centre back	-20/+60 °C	63 mm	BiTh 160 Ch D412	66907412
160 mm	Centre back	-20/+60 °C	100 mm	BiTh 160 Ch D412	66908412
160 mm	Centre back	-20/+60 °C	150 mm	BiTh 160 Ch D412	66909412
160 mm	Centre back	-20/+60 °C	200 mm	BiTh 160 Ch D412	66910412
160 mm	Centre back	0/60 °C	63 mm	BiTh 160 Ch D412	66932412
160 mm	Centre back	0/60 °C	100 mm	BiTh 160 Ch D412	66933412
160 mm	Centre back	0/60 °C	150 mm	BiTh 160 Ch D412	66934412
160 mm	Centre back	0/60 °C	200 mm	BiTh 160 Ch D412	66935412
160 mm	Centre back	0/120 °C	63 mm	BiTh 160 Ch D412	66947412
160 mm	Centre back	0/120 °C	100 mm	BiTh 160 Ch D412	66948412
160 mm	Centre back	0/120 °C	150 mm	BiTh 160 Ch D412	66949412
160 mm	Centre back	0/120 °C	200 mm	BiTh 160 Ch D412	66950412
160 mm	Centre back	0/160 °C	63 mm	BiTh 160 Ch D412	66952412
160 mm	Centre back	0/160 °C	100 mm	BiTh 160 Ch D412	66953412
160 mm	Centre back	0/160 °C	150 mm	BiTh 160 Ch D412	66954412
160 mm	Centre back	0/160 °C	200 mm	BiTh 160 Ch D412	66955412



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