

## Bimetal thermometer for industrial applications BiTh I



### Benefits

- Ranges: -20/+60, 0/60, 0/120, 0/160 °C
- Brass thermowell
- Brass stem

### Application

Mechanical engineering, plant engineering, pipelines, boilers, heating technology

### Technical specifications

#### Type

D2

#### Nominal size

63 – 80 – 100 – 160

#### Measuring element

Bimetal helix

#### Accuracy class

1 (EN 13190)

#### Ranges °C

-20/+60, 0/60, 0/120, 0/160

### Standard version

#### Connection

Stem: Brass, Ø 9 mm

Thermowell: G½B, Brass, Ø 12 mm, removable

#### Mounting position

Bottom or centre back

#### Dial

Aluminium, white

Scaling black

#### Pointer

Aluminium, black

#### Application area (EN 13190)

Continuous load: Measuring range

Short-term: Range

#### Operating pressure at thermowell

Max. 10 bar (static)

#### Degree of protection

IP 41 (EN 60529)

#### Housing

Sheet steel, galvanised

#### Push on bezel

Sheet steel, nickel-plated

#### Window

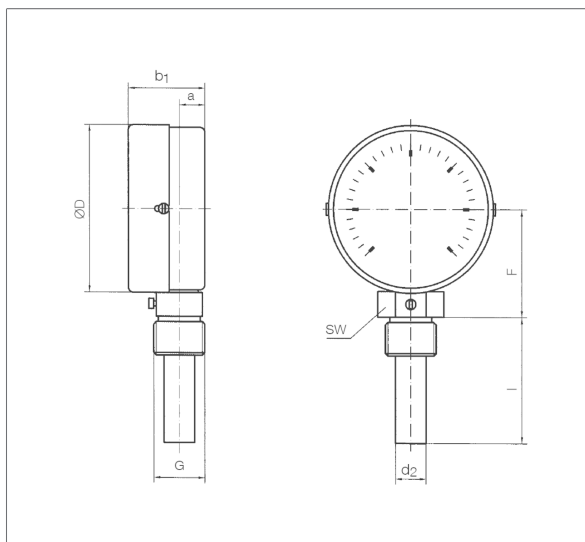
Instrument glass

## Options

- Other connection types
- Other ranges
- Other stem lengths

## Technical drawings

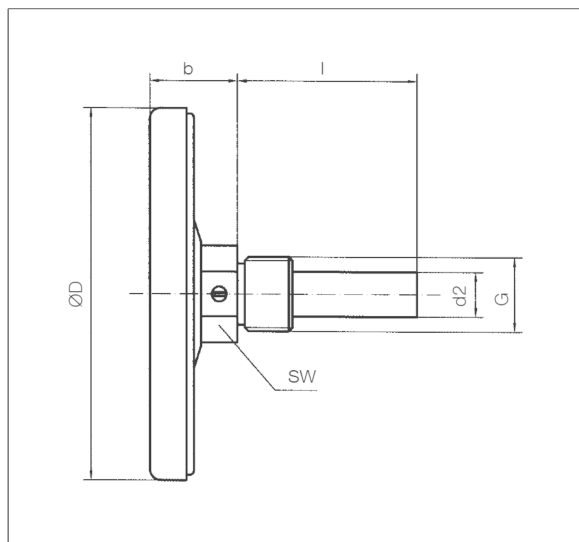
### Bottom connection



#### Dimensions (mm)

NG	a	b1	D	d2	F	G	I	SW
63	10	34	63	12	43,5	G½B	40	22
	10	34	63	12	43,5	G½B	63	22
	10	34	63	12	43,5	G½B	100	22
	10	34	63	12	43,5	G½B	150	22
80	10	36	80	12	52	G½B	40	22
	10	36	80	12	52	G½B	63	22
	10	36	80	12	52	G½B	100	22
	10	36	80	12	52	G½B	150	22
100	10	36	100	12	62	G½B	40	22
	10	36	100	12	62	G½B	63	22
	10	36	100	12	62	G½B	100	22
	10	36	100	12	62	G½B	150	22
160	37	160	12	92	G½B	40	22	
	37	160	12	92	G½B	63	22	
	37	160	12	92	G½B	100	22	
	37	160	12	92	G½B	150	22	

### Centre back connection




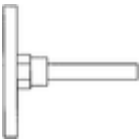
#### Dimensions (mm)

NG	b	D	d2	G	I	SW
63	24	63	12	G½B	40	22
	24	63	12	G½B	63	22
	24	63	12	G½B	100	22
	24	63	12	G½B	150	22
80	24	80	12	G½B	40	22
	24	80	12	G½B	63	22
	24	80	12	G½B	100	22
	24	80	12	G½B	150	22
100	26	100	12	G½B	40	22
	26	100	12	G½B	63	22
	26	100	12	G½B	100	22
	26	100	12	G½B	150	22
160	32	160	12	G½B	40	22
	32	160	12	G½B	63	22
	32	160	12	G½B	100	22
	32	160	12	G½B	150	22



## Versions

### BiTh 63 I

	Housing $\varnothing$	Mounting position	Range	Stem length	Type	Part no.
	63 mm	Bottom	-20/+60 °C	45 mm	BiTh 63 I D201	65106201
	63 mm	Bottom	-20/+60 °C	63 mm	BiTh 63 I D201	65107201
	63 mm	Bottom	-20/+60 °C	100 mm	BiTh 63 I D201	65108201
	63 mm	Bottom	-20/+60 °C	150 mm	BiTh 63 I D201	65109201
	63 mm	Bottom	0/60 °C	45 mm	BiTh 63 I D201	65131201
	63 mm	Bottom	0/60 °C	63 mm	BiTh 63 I D201	65132201
	63 mm	Bottom	0/60 °C	100 mm	BiTh 63 I D201	65133201
	63 mm	Bottom	0/60 °C	150 mm	BiTh 63 I D201	65134201
	63 mm	Bottom	0/120 °C	45 mm	BiTh 63 I D201	65146201
	63 mm	Bottom	0/120 °C	63 mm	BiTh 63 I D201	65147201
	63 mm	Bottom	0/120 °C	150 mm	BiTh 63 I D201	65148201
	63 mm	Bottom	0/120 °C	150 mm	BiTh 63 I D201	65149201
	63 mm	Bottom	0/160 °C	45 mm	BiTh 63 I D201	65151201
	63 mm	Bottom	0/160 °C	63 mm	BiTh 63 I D201	65152201
	63 mm	Bottom	0/160 °C	100 mm	BiTh 63 I D201	65153201
	63 mm	Bottom	0/160 °C	150 mm	BiTh 63 I D201	65154201
	63 mm	Centre back	-20/+60 °C	45 mm	BiTh 63 I D211	65106211
	63 mm	Centre back	-20/+60 °C	63 mm	BiTh 63 I D211	65107211
	63 mm	Centre back	-20/+60 °C	100 mm	BiTh 63 I D211	65108211
	63 mm	Centre back	-20/+60 °C	150 mm	BiTh 63 I D211	65109211
	63 mm	Centre back	0/60 °C	45 mm	BiTh 63 I D211	<a href="#">65131211</a>
	63 mm	Centre back	0/60 °C	63 mm	BiTh 63 I D211	<a href="#">65132211</a>
	63 mm	Centre back	0/60 °C	100 mm	BiTh 63 I D211	65133211
	63 mm	Centre back	0/60 °C	150 mm	BiTh 63 I D211	65134211
	63 mm	Centre back	0/120 °C	45 mm	BiTh 63 I D211	<a href="#">65146211</a>
	63 mm	Centre back	0/120 °C	63 mm	BiTh 63 I D211	<a href="#">65147211</a>

Blue part no. = in-stock items



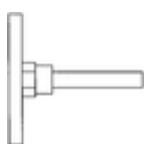
Housing $\varnothing$	Mounting position	Range	Stem length	Type	Part no.
63 mm	Centre back	0/120 °C	100 mm	BiTh 63 I D211	65148211
63 mm	Centre back	0/120 °C	150 mm	BiTh 63 I D211	65149211
63 mm	Centre back	0/160 °C	45 mm	BiTh 63 I D211	65151211
63 mm	Centre back	0/160 °C	63 mm	BiTh 63 I D211	65152211
63 mm	Centre back	0/160 °C	100 mm	BiTh 63 I D211	65153211
63 mm	Centre back	0/160 °C	150 mm	BiTh 63 I D211	65154211

Blue part no. = in-stock items

### BiTh 80 I

Housing $\varnothing$	Mounting position	Range	Stem length	Type	Part no.
80 mm	Bottom	-20/+60 °C	45 mm	BiTh 80 I D201	65206201
80 mm	Bottom	-20/+60 °C	63 mm	BiTh 80 I D201	65207201
80 mm	Bottom	-20/+60 °C	100 mm	BiTh 80 I D201	65208201
80 mm	Bottom	-20/+60 °C	150 mm	BiTh 80 I D201	65209201
80 mm	Bottom	0/60 °C	45 mm	BiTh 80 I D201	65231201
80 mm	Bottom	0/60 °C	63 mm	BiTh 80 I D201	65232201
80 mm	Bottom	0/60 °C	100 mm	BiTh 80 I D201	65233201
80 mm	Bottom	0/60 °C	150 mm	BiTh 80 I D201	65234201
80 mm	Bottom	0/120 °C	45 mm	BiTh 80 I D201	65246201
80 mm	Bottom	0/120 °C	63 mm	BiTh 80 I D201	65247201
80 mm	Bottom	0/120 °C	100 mm	BiTh 80 I D201	65248201
80 mm	Bottom	0/120 °C	150 mm	BiTh 80 I D201	65249201
80 mm	Bottom	0/160 °C	45 mm	BiTh 80 I D201	65251201
80 mm	Bottom	0/160 °C	63 mm	BiTh 80 I D201	65252201
80 mm	Bottom	0/160 °C	100 mm	BiTh 80 I D201	65253201
80 mm	Bottom	0/160 °C	150 mm	BiTh 80 I D201	65254201
80 mm	Centre back	-20/+60 °C	45 mm	BiTh 80 I D211	65206211
80 mm	Centre back	-20/+60 °C	63 mm	BiTh 80 I D211	65207211
80 mm	Centre back	-20/+60 °C	100 mm	BiTh 80 I D211	65208211
80 mm	Centre back	-20/+60 °C	150 mm	BiTh 80 I D211	65209211

Blue part no. = in-stock items





Housing $\varnothing$	Mounting position	Range	Stem length	Type	Part no.
80 mm	Centre back	0/60 °C	45 mm	BiTh 80 I D211	65231211
80 mm	Centre back	0/60 °C	63 mm	BiTh 80 I D211	<a href="#">65232211</a>
80 mm	Centre back	0/60 °C	100 mm	BiTh 80 I D211	65233211
80 mm	Centre back	0/60 °C	150 mm	BiTh 80 I D211	<a href="#">65234211</a>
80 mm	Centre back	0/120 °C	45 mm	BiTh 80 I D211	65246211
80 mm	Centre back	0/120 °C	63 mm	BiTh 80 I D211	<a href="#">65247211</a>
80 mm	Centre back	0/120 °C	100 mm	BiTh 80 I D211	<a href="#">65248211</a>
80 mm	Centre back	0/120 °C	150 mm	BiTh 80 I D211	<a href="#">65249211</a>
80 mm	Centre back	0/160 °C	45 mm	BiTh 80 I D211	65251211
80 mm	Centre back	0/160 °C	63 mm	BiTh 80 I D211	65252211
80 mm	Centre back	0/160 °C	100 mm	BiTh 80 I D211	65253211
80 mm	Centre back	0/160 °C	150 mm	BiTh 80 I D211	65254211

Blue part no. = in-stock items

#### BiTh 100 I

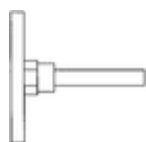
Housing $\varnothing$	Mounting position	Range	Stem length	Type	Part no.
100 mm	Bottom	-20/+60 °C	45 mm	BiTh 100 I D201	65306201
100 mm	Bottom	-20/+60 °C	63 mm	BiTh 100 I D201	65307201
100 mm	Bottom	-20/+60 °C	100 mm	BiTh 100 I D201	65308201
100 mm	Bottom	-20/+60 °C	150 mm	BiTh 100 I D201	65309201
100 mm	Bottom	0/60 °C	45 mm	BiTh 100 I D201	65331201
100 mm	Bottom	0/60 °C	63 mm	BiTh 100 I D201	65332201
100 mm	Bottom	0/60 °C	100 mm	BiTh 100 I D201	65333201
100 mm	Bottom	0/60 °C	150 mm	BiTh 100 I D201	65334201
100 mm	Bottom	0/120 °C	45 mm	BiTh 100 I D201	65346201
100 mm	Bottom	0/120 °C	63 mm	BiTh 100 I D201	65347201
100 mm	Bottom	0/120 °C	100 mm	BiTh 100 I D201	65348201
100 mm	Bottom	0/120 °C	150 mm	BiTh 100 I D201	65349201
100 mm	Bottom	0/160 °C	45 mm	BiTh 100 I D201	65351201
100 mm	Bottom	0/160 °C	63 mm	BiTh 100 I D201	65352201



Blue part no. = in-stock items



Housing $\varnothing$	Mounting position	Range	Stem length	Type	Part no.
100 mm	Bottom	0/160 °C	100 mm	BiTh 100 I D201	65353201
100 mm	Bottom	0/160 °C	150 mm	BiTh 100 I D201	65354201
100 mm	Centre back	-20/+60 °C	45 mm	BiTh 100 I D211	65306211
100 mm	Centre back	-20/+60 °C	63 mm	BiTh 100 I D211	<a href="#">65307211</a>
100 mm	Centre back	-20/+60 °C	100 mm	BiTh 100 I D211	<a href="#">65308211</a>
100 mm	Centre back	-20/+60 °C	150 mm	BiTh 100 I D211	65309211
100 mm	Centre back	0/60 °C	45 mm	BiTh 100 I D211	65331211
100 mm	Centre back	0/60 °C	63 mm	BiTh 100 I D211	<a href="#">65332211</a>
100 mm	Centre back	0/60 °C	100 mm	BiTh 100 I D211	<a href="#">65333211</a>
100 mm	Centre back	0/60 °C	150 mm	BiTh 100 I D211	65334211
100 mm	Centre back	0/120 °C	45 mm	BiTh 100 I D211	65346211
100 mm	Centre back	0/120 °C	63 mm	BiTh 100 I D211	<a href="#">65347211</a>
100 mm	Centre back	0/120 °C	100 mm	BiTh 100 I D211	<a href="#">65348211</a>
100 mm	Centre back	0/120 °C	150 mm	BiTh 100 I D211	<a href="#">65349211</a>
100 mm	Centre back	0/160 °C	45 mm	BiTh 100 I D211	65351211
100 mm	Centre back	0/160 °C	63 mm	BiTh 100 I D211	<a href="#">65352211</a>
100 mm	Centre back	0/160 °C	100 mm	BiTh 100 I D211	65353211
100 mm	Centre back	0/160 °C	150 mm	BiTh 100 I D211	65354211



Blue part no. = in-stock items

#### BiTh 160 I

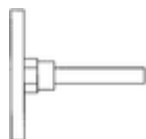
Housing $\varnothing$	Mounting position	Range	Stem length	Type	Part no.
160 mm	Bottom	-20/+60 °C	45 mm	BiTh 160 I D201	65406201
160 mm	Bottom	-20/+60 °C	63 mm	BiTh 160 I D201	65407201
160 mm	Bottom	-20/+60 °C	100 mm	BiTh 160 I D201	65408201
160 mm	Bottom	-20/+60 °C	150 mm	BiTh 160 I D201	65409201
160 mm	Bottom	0/60 °C	45 mm	BiTh 160 I D201	65431201
160 mm	Bottom	0/60 °C	63 mm	BiTh 160 I D201	65432201
160 mm	Bottom	0/60 °C	100 mm	BiTh 160 I D201	65433201
160 mm	Bottom	0/60 °C	150 mm	BiTh 160 I D201	65434201



Blue part no. = in-stock items



Housing <sup>⊗</sup>	Mounting position	Range	Stem length	Type	Part no.
160 mm	Bottom	0/120 °C	45 mm	BiTh 160 I D201	65446201
160 mm	Bottom	0/120 °C	63 mm	BiTh 160 I D201	65447201
160 mm	Bottom	0/120 °C	100 mm	BiTh 160 I D201	65448201
160 mm	Bottom	0/120 °C	150 mm	BiTh 160 I D201	65449201
160 mm	Bottom	0/160 °C	45 mm	BiTh 160 I D201	65451201
160 mm	Bottom	0/160 °C	63 mm	BiTh 160 I D201	65452201
160 mm	Bottom	0/160 °C	100 mm	BiTh 160 I D201	65453201
160 mm	Bottom	0/160 °C	150 mm	BiTh 160 I D201	65454201
160 mm	Centre back	-20/+60 °C	45 mm	BiTh 160 I D211	65406211
160 mm	Centre back	-20/+60 °C	63 mm	BiTh 160 I D211	65407211
160 mm	Centre back	-20/+60 °C	100 mm	BiTh 160 I D211	65408211
160 mm	Centre back	-20/+60 °C	150 mm	BiTh 160 I D211	65409211
160 mm	Centre back	0/60 °C	45 mm	BiTh 160 I D211	65431211
160 mm	Centre back	0/60 °C	63 mm	BiTh 160 I D211	65432211
160 mm	Centre back	0/60 °C	100 mm	BiTh 160 I D211	65433211
160 mm	Centre back	0/60 °C	150 mm	BiTh 160 I D211	65434211
160 mm	Centre back	0/120 °C	45 mm	BiTh 160 I D211	65446211
160 mm	Centre back	0/120 °C	63 mm	BiTh 160 I D211	65447211
160 mm	Centre back	0/120 °C	100 mm	BiTh 160 I D211	65448211
160 mm	Centre back	0/120 °C	150 mm	BiTh 160 I D211	65449211
160 mm	Centre back	0/160 °C	45 mm	BiTh 160 I D211	65451211
160 mm	Centre back	0/160 °C	63 mm	BiTh 160 I D211	65452211
160 mm	Centre back	0/160 °C	100 mm	BiTh 160 I D211	65453211
160 mm	Centre back	0/160 °C	150 mm	BiTh 160 I D211	65454211



Blue part no. = in-stock items