

Bimetal thermometers for industrial applications

Bimetal air duct thermometers



Bimetal thermometers for industrial applications

Application

Machines, plants, pipe engineering, boilers, heating technology

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

Working temperature

Full scale value

Operating pressure at thermowell

Max. 6 bar

Protection

IP 41 (EN 60529)

Standard version

Connection

Stem brass, Ø 9 mm
Thermowell G1/2B, brass, removable

Mounting position

NG 63 – 80 – 100 – 160 centre back
NG 63 – 80 – 100 – 160 bottom



Dial

Aluminium, white, dial marking black

Pointer

Aluminium, black

Housing

Sheet steel, galvanised

Push on bezel

Sheet steel, nickel-plated

Front glass

Instrument glass

Options

- Other connection types
- Other ranges
- Other stem lengths

Bimetal air duct thermometers

Application

Air conditioning, ventilation

Type

D2

Nominal size

63 – 80 – 100

Measuring element

Bimetal helix

Accuracy class

2 (EN 13190)



Ranges °C

-30/50, -20/60, -20/40, 0/60

Working temperature

Full scale value

Protection

IP 41 (EN 60529)

Standard version

Connection

Stem brass, Ø 9 mm
Mounting flange, steel Ø 60 mm or
back flange, steel

Mounting position

NG 63 – 80 – 100 centre back

Dial

Aluminium, white, dial marking black

Pointer

Plastic material, black

Housing

Sheet steel, galvanised

Push on bezel

Sheet steel, nickel-plated

Front glass

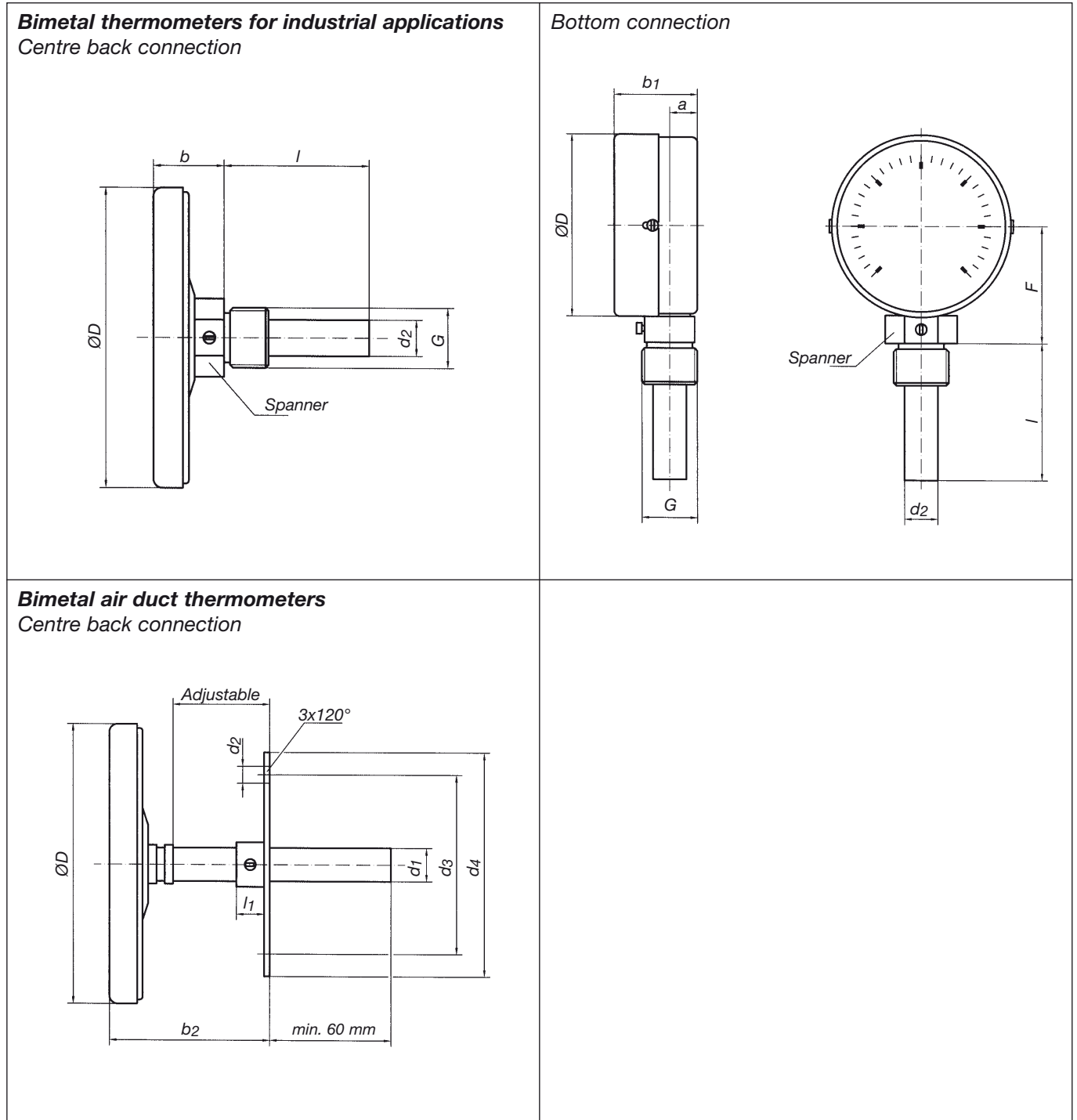
Plastic material

Options

- Other ranges
- Other stem lengths
- Accuracy class 1
- Flange, steel Ø 40/80 mm

Bimetal thermometers for industrial applications/ bimetal air duct thermometers

Housing types and dimensions

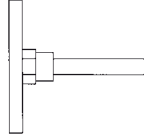
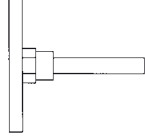
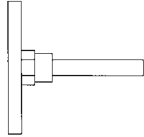
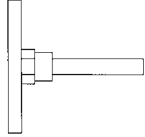


Dimensions (mm)

Nominal size (NG)	a	b	b ₁	b ₂	D	d ₁	d ₂	d ₃	d ₄	F	G	l	l ₁	SW
63	10	24	34	Adjustable	63	9	3.6	51	60	43.5	G _{1/2} B	45	10	21/22
80	10	24	36		80	9	3.6	51	60	52	G _{1/2} B	63	10	21/22
100	10	26	36		100	9	3.6	51	60	62	G _{1/2} B	100	10	21/22
160	-	32	37		160	/	/	-	-	92	G _{1/2} B	150	-	21/22




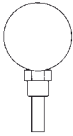
Bimetal thermometers for industrial applications

DG: H

Type	BiTh 63 I D211	BiTh 80 I D211	BiTh 100 I D211	BiTh 160 I D211
Version				
Housing-Ø	63	80	100	160
Housing	Sheet steel, galvanised, push on bezel nickel-plated, instrument grade front glass			
Stem	Brass, Ø 9 mm			
Connection	Thermowell G ¹ / ₂ B, brass, outside Ø 12 mm, removable			
Accuracy class	Class 1 according to EN 13190			
Range	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
45 mm	65106211	65206211	65306211	65406211
63 mm	65107211	65207211	65307211	65407211
100 mm	65108211	65208211	65308211	65408211
150 mm	65109211	65209211	65309211	65409211
Range	0/60 °C	0/60 °C	0/60 °C	0/60 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
45 mm	65131211	65231211	65331211	65431211
63 mm	65132211	65232211	65332211	65432211
100 mm	65133211	65233211	65333211	65433211
150 mm	65134211	65234211	65334211	65434211
Range	0/120 °C	0/120 °C	0/120 °C	0/120 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
45 mm	65146211	65246211	65346211	65446211
63 mm	65147211	65247211	65347211	65447211
100 mm	65148211	65248211	65348211	65448211
150 mm	65149211	65249211	65349211	65449211
Range	0/160 °C	0/160 °C	0/160 °C	0/160 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
45 mm	65151211	65251211	65351211	65451211
63 mm	65152211	65252211	65352211	65452211
100 mm	65153211	65253211	65353211	65453211
150 mm	65154211	65254211	65354211	65454211

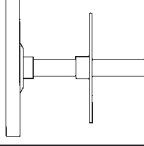
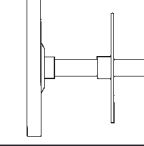
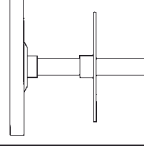
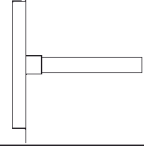
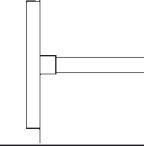
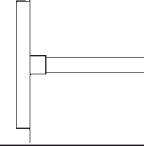
Bimetal thermometers for industrial applications

DG: H

Type	BiTh 63 I D201	BiTh 80 I D201	BiTh 100 I D201	BiTh 160 I D201
Version				
Housing-Ø	63	80	100	160
Housing	Sheet steel, galvanised, push on bezel nickel-plated, instrument grade front glass			
Stem	Brass, Ø 9 mm			
Connection	Thermowell G ¹ / ₂ B, brass, outside Ø 12 mm, removable			
Accuracy class	Class 1 according to EN 13190			
Range	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
45 mm	65106201	65206201	65306201	65406201
63 mm	65107201	65207201	65307201	65407201
100 mm	65108201	65208201	65308201	65408201
150 mm	65109201	65209201	65309201	65409201
Range	0/60 °C	0/60 °C	0/60 °C	0/60 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
45 mm	65131201	65231201	65331201	65431201
63 mm	65132201	65232201	65332201	65432201
100 mm	65133201	65233201	65333201	65433201
150 mm	65134201	65234201	65334201	65434201
Range	0/120 °C	0/120 °C	0/120 °C	0/120 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
45 mm	65146201	65246201	65346201	65446201
63 mm	65147201	65247201	65347201	65447201
100 mm	65148201	65248201	65348201	65448201
150 mm	65149201	65249201	65349201	65449201
Range	0/160 °C	0/160 °C	0/160 °C	0/160 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
45 mm	65151201	65251201	65351201	65451201
63 mm	65152201	65252201	65352201	65452201
100 mm	65153201	65253201	65353201	65453201
150 mm	65154201	65254201	65354201	65454201

Bimetal air duct thermometers

DG: H

Type	BiTh 63 LKF D211	BiTh 80 LKF D211	BiTh 100 LKF D211	BiTh 63 LKB D271	BiTh 80 LKB D271	BiTh 100 LKB D271
Version						
Housing-Ø	63	80	100	63	80	100
Housing	Sheet steel, galvanised, push on bezel nickel-plated, plastic window			Sheet steel, galvanised, push on bezel nickel-plated, with back flange, instrument grade front glass		
Stem	Brass, Ø 9 mm					
Connection	Flange, plastic material, Ø 60 mm with locking screw and o-ring			plain		
Accuracy class	Class 2 according to EN 13190					
Range	-30/+50 °C	-30/+50 °C	-30/+50 °C	-30/+50 °C	-30/+50 °C	-30/+50 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
100 mm	65613211	65713211	65813211	65613271	65713271	65813271
150 mm	65614211	65714211	65814211	65614271	65714271	65814271
200 mm	65615211	65715211	65815211	65615271	65715271	65815271
Range	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
100 mm	65608211	65708211	65808211	65608271	65708271	65808271
150 mm	65609211	65709211	65809211	65609271	65709271	65809271
200 mm	65610211	65710211	65810211	65610271	65710271	65810271
Range	-20/+40 °C	-20/+40 °C	-20/+40 °C	-20/+40 °C	-20/+40 °C	-20/+40 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
100 mm	65623211	65723211	65823211	65623271	65723271	65823271
150 mm	65624211	65724211	65824211	65624271	65724271	65824271
200 mm	65625211	65725211	65825211	65625271	65725271	65825271
Range	0/60 °C	0/60 °C	0/60 °C	0/60 °C	0/60 °C	0/60 °C
Stem length	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.	Price € Part no.
100 mm	65633211	65733211	65833211	65633271	65733271	65833271
150 mm	65634211	65734211	65834211	65634271	65734271	65834271
200 mm	65635211	65735211	65835211	65635271	65735271	65835271

Refer to pages 200–202 for options and additional costs.