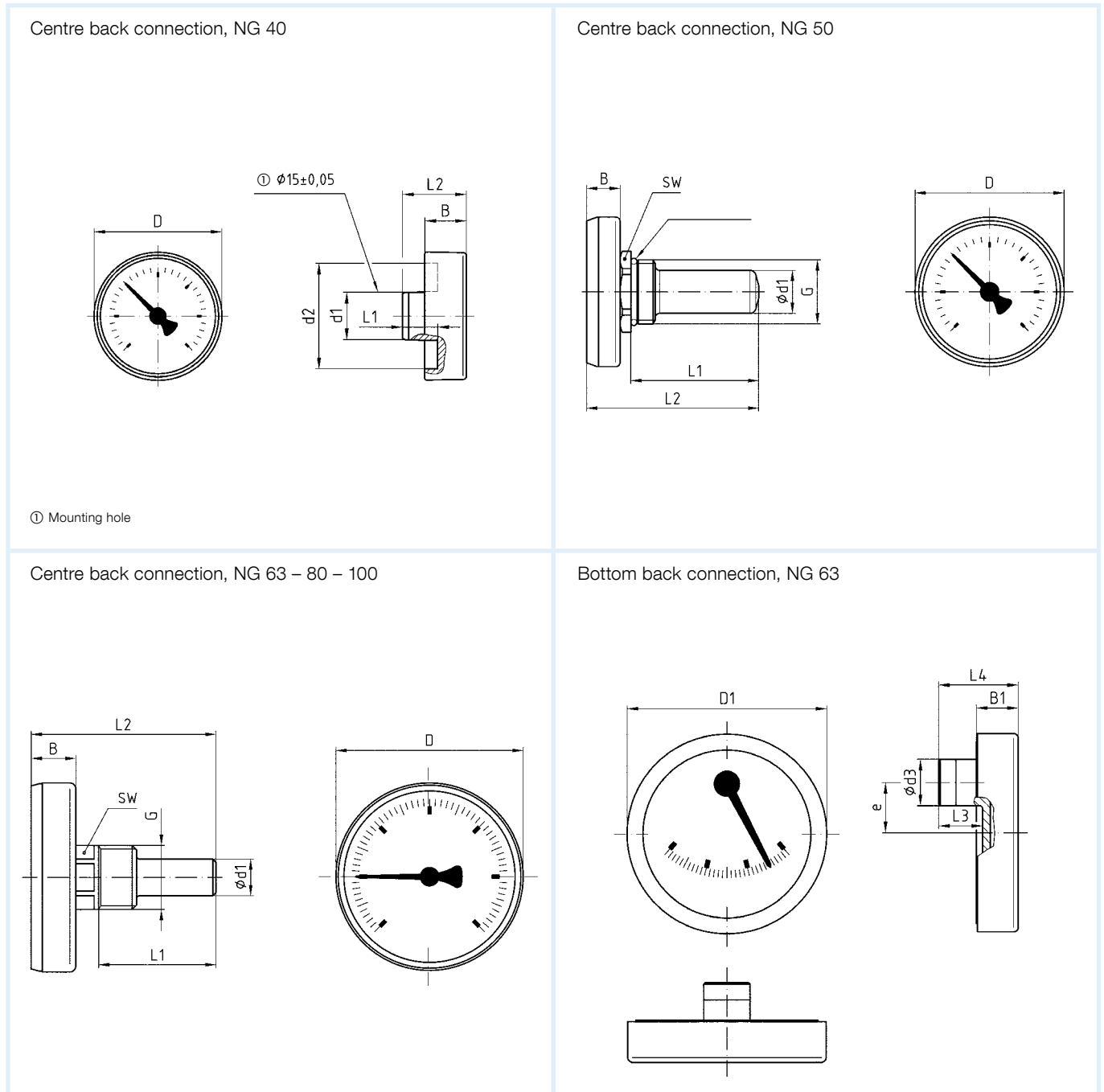


# Bimetal thermometers for heating and plumbing applications

## Housing types and dimensions (mm)



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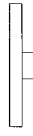
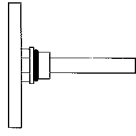
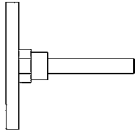
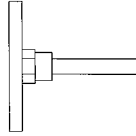
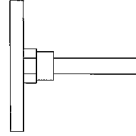
### Dimensions (mm)

Nominal size (NG)	B	B <sub>1</sub>	D	D <sub>1</sub>	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	e	G	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	L <sub>4</sub>	SW
40	13	-	40	-	14.8	33	-	-	-	11	50	-	-	-
50	11	-	49	-	14	-	-	-	G <sub>1/2</sub> B	42	56.5	-	-	24
63	14.7	13	62	63.5	12	-	15	16	G <sub>1/2</sub> B	40/63/100/ 150/200	61/85/122/ 172/222	14	25	19
80	14.8	-	79	-	12	-	-	G <sub>1/2</sub> B	-			-	19	
100	15	-	100	-	12	-	-	G <sub>1/2</sub> B	-			-	19	

# Bimetal thermometers for heating and plumbing applications

DG: G, PG: 1

DG: G, PG: 2

Type	BiTh 40 K	BiTh 50 K	BiTh 63 K	BiTh 80 K	BiTh 100 K					
Version										
Housing Ø	40	50	63	80	100					
Housing	Plastic (ABS), white		Plastic (ABS), black, window (plastic clip-in)							
Stem	Plastic, Ø 15 mm	Plastic, Ø 9 mm	Plastic, brass or aluminium, Ø 9 mm							
Connection	Plastic, plug-on, no thermowell	Thermowell G½B, plastic	Thermowell G½B, brass, Ø 12 mm outside, removable							
Accuracy class	Class 2 as per EN 13190									
Range (bar)	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C	-20/+60 °C					
Stem length		PU*	PU*	Price € Part no.	PU*	Price € Part no.	PU*	Price € Part no.	PU*	
40 mm	---			<b>63763</b>	100	<b>63776</b>	100	<b>63676</b>	50	
63 mm	---			<b>63769</b>	100	<b>63777</b>	100	<b>63677</b>	50	
100 mm	---			63770	100	63778	50	<b>63678</b>	50	
150 mm	---			63771	50	63779	40	63679	25	
Range	0/60 °C	0/60 °C	0/60 °C	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.	
40 mm	64066 (See drawing for stem)	100	63749	100	<b>63760</b>	100	<b>63765</b>	100	<b>63698</b>	50
63 mm			---		<b>63761</b>	100	63766	100	<b>63699</b>	50
100 mm			---		63762	100	63767	50	<b>63700</b>	50
150 mm			---		63764	50	63768	40	63701	52
Range	0/120 °C	0/120 °C	0/120 °C	0/120 °C	0/120 °C	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.		Price € Part no.	
40 mm with PTFE sealing ring	---		---		<b>63702</b>	100	<b>63706</b>	100	<b>63684</b>	50
40 mm	---		---		<b>63704</b>	100	<b>63708</b>	100	<b>63997</b>	50
63 mm	---		---		<b>63710</b>	100	<b>63715</b>	100	<b>63695</b>	50
100 mm	---		---		<b>63711</b>	100	<b>63716</b>	50	<b>63696</b>	50
150 mm	---		---		<b>63714</b>	50	<b>63717</b>	40	<b>63697</b>	25
200 mm	---		---		---				<b>63671</b>	10

\* Minimum order quantity for non-stock items 1 PU (packing unit); delivery only in packing units.

## Spare thermowells

Connection G½B, brass			
Stem length	PG	Part no.	Price
40 mm with PTFE sealing ring	2	<b>63685</b>	
40 mm	2	<b>63856</b>	
63 mm	2	<b>63686</b>	
100 mm	2	<b>63687</b>	
150 mm	2	<b>63688</b>	

# Bimetal standard thermometers/surface mount thermometers/flue gas thermometers



## Bimetal standard thermometers

**Application** Heating, plumbing

### Technical specifications

**Nominal size**  
50 – 63 – 80 – 100

**Measuring element**  
Bimetal helix

**Accuracy class**  
2 (EN 13190)

**Ranges °C**  
-20/+60, 0/60, 0/120, 0/160

**Application area**  
Full scale value

**Operating pressure at thermowell**  
Max. 6 bar

### Standard version

**Connection**  
Stem plastic, brass or aluminium, Ø 9 mm  
Thermowell G½B, brass, removable (160 °C and higher with locking screw)

**Mounting position**  
NG 50 – 63 – 80 – 100  
NG 63 – 80 – 100 bottom

**Dial**  
Up to 120 °C plastic, greater than 160 °C aluminium, white  
Dial marking black

**Pointer**  
Plastic, black

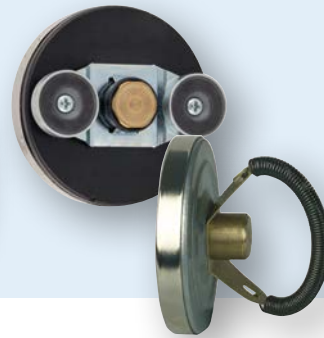
**Housing**  
Sheet steel galvanised

**Push on bezel**  
Sheet steel nickel-plated

**Window**  
Plastic

**Options**

- Other ranges
- Nominal size 34, 160



## Surface mount thermometer ATH

Heating, ventilation and plumbing. Fastening by means of spring (ATH Ø F), magnet (ATH Ø M) or universal clamp (ATH Ø S)

**Nominal size**  
63 – 80

**Measuring element**  
Bimetal spiral

**Ranges °C**  
-20/+40, 0/60, 0/120

**Application area**  
Full scale value

**Connection**  
ATH Ø F: With heat-conducting element and universal clamp;  
ATH Ø S with universal clamp for pipes 3/8" to 1 1/2".  
ATH Ø M: 2 x magnet Ø20 mm

**Mounting position**  
NG 63 – 80 centre back

**Dial**  
Plastic, white;  
dial marking black

**Pointer**  
Plastic, black

**Housing**  
ATH Ø F: Sheet steel, galvanised  
ATH Ø M: Plastic, black  
ATH Ø S: Sheet steel, galvanised

**Push on bezel**  
Sheet steel nickel-plated

**Window**  
Plastic

**Options**

- Other ranges
- Plastic housing



## Flue gas-thermometer RT / flue gas temperature controller RTC

Flue gas thermometer RT and flue gas temperature controller RTC for gas and oil fired systems

**Nominal size**  
80

**Measuring element**  
Bimetal helix

**Ranges °C**  
RT: 0/300, 0/500  
RTC: 0/350

**Application area**  
Full scale value

**Connection**  
RT: Stem stainless steel 316 L, plain, with adjustable cone, brass  
RTC: Stem stainless steel 316 L, plain, with ring magnet bracket

**Mounting position:** centre back

**Dial**  
Aluminium, grey – dial marking black; RTC with green and red reference zones

**Pointer**  
Aluminium, black  
RTC with additional max. pointer, red

**Housing**  
Sheet steel galvanised

**Push on bezel**  
Sheet steel nickel-plated

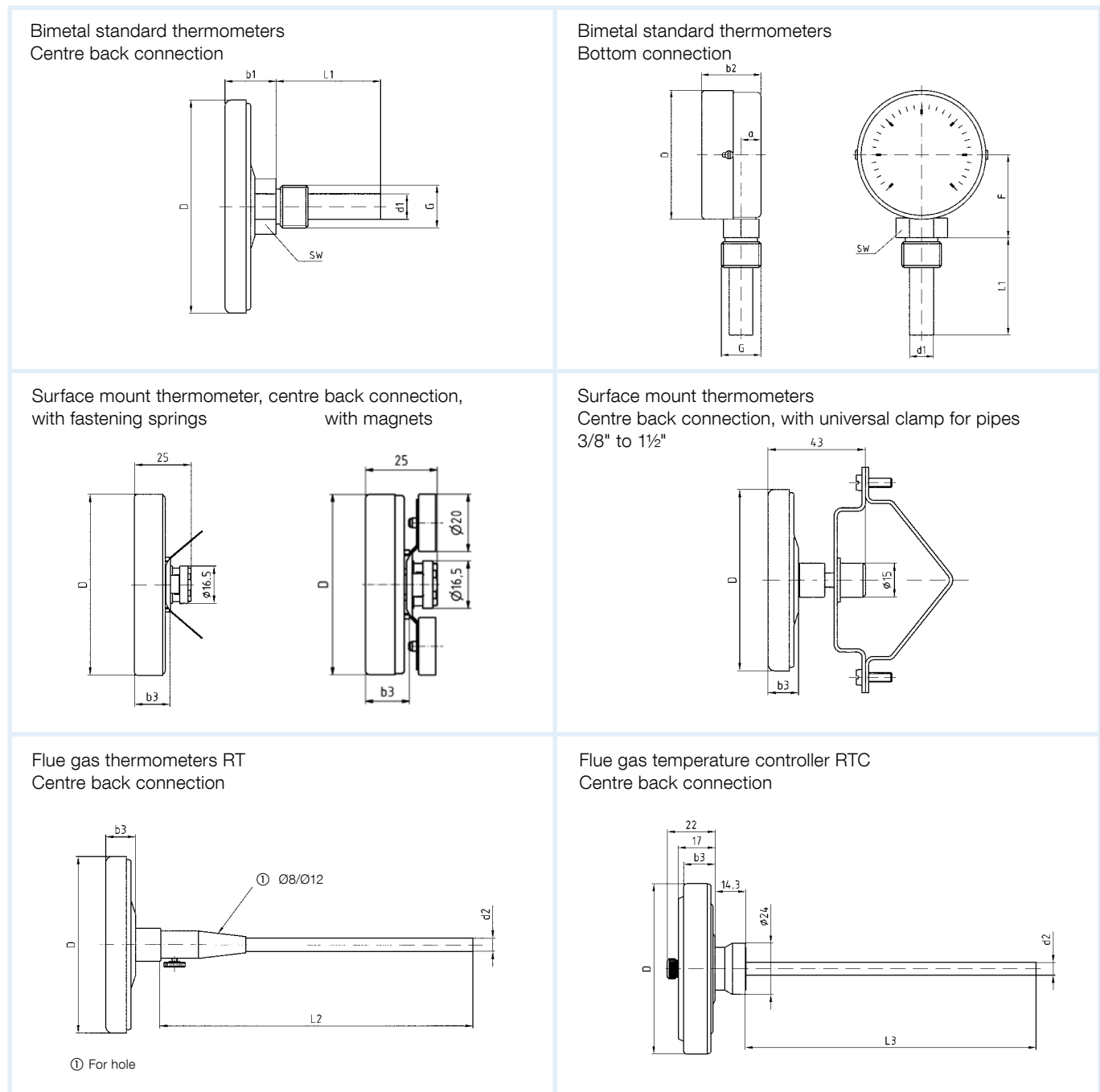
**Window**  
Plastic



See page 357 for prices.

# Bimetal standard thermometers/surface mount thermometers/flue gas thermometers

## Housing types and dimensions (mm)



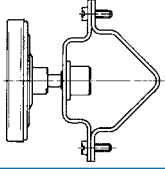
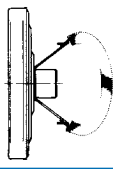
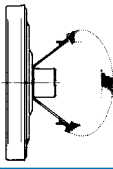
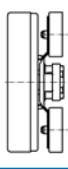
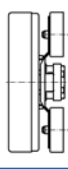
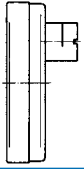
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## Dimensions (mm)

Nominal size (NG)	a	b1	b2	b3	D	d1	d2	F	G	L1	L2	L3	SW
50	-	18	-	-	50	12	-	-	G1/2B	40	141 191 291	86 136	19/22
63	10	20	35	15	63	12	-	29.3	G1/2B	63			19/22
80	10	21	33	15	80	12	6	47.3	G1/2B	100			19/22
100	10	23.7	40.5	-	100	12	-	59.3	G1/2B	150			19/22

# Surface mount thermometers/eccentric thermometers

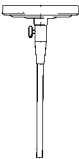
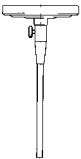
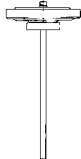
DG: G, PG: 3

Type	ATh 63 S	ATh 63 F*	ATh 80 F*	ATh 63 M	ATh 80 M	BiTh 63 exz
Version						
Housing Ø	63	63	80	63	80	63
Housing	Sheet steel galvanised, push on bezel nickel-plated, plastic window			Plastic, black, push on bezel nickel-plated, plastic window		Plastic
Connection	Universal clamp for pipes $\frac{3}{8}$ " to $1\frac{1}{2}$ "	Heat-conducting element with fastening spring for pipes $\frac{3}{8}$ " to $1\frac{1}{2}$ "		2 x magnet Ø 20 mm		Eccentric male connector Ø 15 mm
Accuracy class	Class 2 as per EN 13190					
Range	0/120 °C	0/120 °C	0/120 °C	0/120 °C	0/120 °C	20/100 °C
	<b>Price €</b> Part no.	<b>Price €</b> Part no.	<b>Price €</b> Part no.	<b>Price €</b> Part no.	<b>Price €</b> Part no.	<b>Price €</b> Part no.
Dial black	<b>63820</b>	<b>63822</b>	<b>63821</b>	<b>63651</b>	<b>63653</b>	68895
Dial red	---	---	---	---	---	<b>63920</b>
Dial blue	---	---	---	---	---	<b>63921</b>
Range	0/60 °C	0/60 °C	0/60 °C	0/60 °C	0/60 °C	0/60 °C
	---	<b>63826</b>	63943	<b>63650</b>	<b>63652</b>	---
Range	---	-20/+40 °C	---	---	---	---
	---	<b>64339</b>	---	---	---	---

\*ATh 63 F/ATh 80 F are also available with plastic housing.

# Flue gas thermometers/flue gas temperature controllers

DG: G, PG: 3

Type	RT 80	RT 80	RTC 80
Version			
Housing Ø	80	80	80
Housing	Sheet steel galvanised, push on bezel nickel-plated, plastic window		
Connection	Plain stem Stainless steel 316 L Adjustable cone Brass, nickel-plated 8 – 12 mm	Plain stem Stainless steel 316 L Adjustable cone Stainless steel 12 – 18 mm	Plain stem stainless steel 316, magnet
Accuracy class	Class 2 as per EN 13190		
Range	0/300 °C	0/500 °C	0/350 °C
Stem length	<b>Price €</b> Part no.	<b>Price €</b> Part no.	<b>Price €</b> Part no.
100 mm	---	---	<b>63833</b>
150 mm	<b>64238</b>	<b>63830</b>	<b>63832</b>
300 mm	<b>64239</b>	<b>63831</b>	---