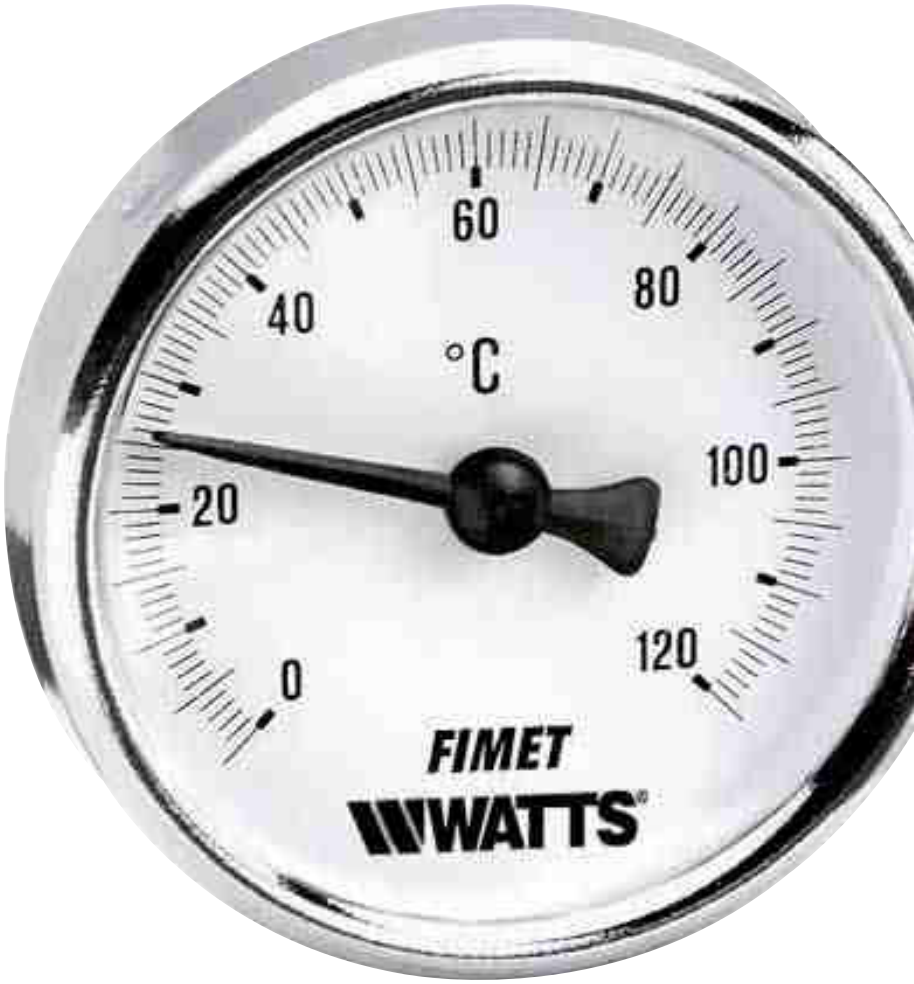
TB

Bimetal thermometers

Technical Data Sheet



WattsWater.eu

WATTS®

Description

Zinc-plated steel case with chrome-plated bezel ring centre back entry. For domestic and industrial heating, gases and liquids not viscous, not aggressive and not crystallising.



TB-33

DN33 thermometers.

Part No	Stem (mm)	Scale Range	Connec.	Options*	Box/ Master	Min. order
PT10447000	30	0-60 °C	G3/8B	G	480/480	480
PT15457002	30	0-80 °C	G3/8B		480/480	480
PT10507003	30	0-120 °C	G3/8B	G	480/480	480
	50	-30+50 °C	G1/2B	G	50/50	50
	50	0-60 °C	G1/2B	G	50/50	50
	50	0-80 °C	G1/2B	G	50/50	50
PT10507000	50	0-120 °C	G1/2B	G	50/50	50



TB-40

DN40 thermometers.

Part No	Stem (mm)	Scale Range	Connec.	Options*	Box/ Master	Min. order
PT10457008	30	0-80 °C	G3/8B	G+LF	240/240	240
PT10507011	30	0-120 °C	G3/8B	G	240/240	240
	50	-30+50 °C	G1/2B	G	50/50	50
	50	0-60 °C	G1/2B	G	50/50	50
	50	0-80 °C	G1/2B	G	50/50	50
	50	0-120 °C	G1/2B	G	50/50	50



TB-52

DN52 thermometers.

Part No	Stem (mm)	Scale Range	Connec.	Options*	Box/ Master	Min. order
	50	-30+50 °C	G1/2B	G	50/50	50
	50	0-60 °C	G1/2B	G	50/50	50
	50	0-80 °C	G1/2B	G	50/50	50
PT205070	50	0-120 °C	G1/2B	G	50/50	50
	50	0-200 °C	G1/2B	G	50/50	50
	50	0-250 °C	G1/2B	G	50/50	50
	50	0-350 °C	G1/2B	G	50/50	50
	100	-30+50 °C	G1/2B	G	50/50	50
	100	0-60 °C	G1/2B	G	50/50	50
	100	0-80 °C	G1/2B	G	50/50	50
PT215070	100	0-120 °C	G1/2B	G	50/50	50
	100	0-200 °C	G1/2B	G	50/50	50
	100	0-250 °C	G1/2B	G	50/50	50
	100	0-350 °C	G1/2B	G	50/50	50
PT21687001	100	0-500 °C	G1/2B	G	50/50	50



TB-63

DN63 thermometers.

Part No	Stem (mm)	Scale Range	Connec.	Options*	Box/ Master	Min. order
PT309870	50	-30+50 °C	G1/2B	G	50/50	25
PT304470	50	0-60 °C	G1/2B	G	50/50	25
	50	0-80 °C	G1/2B	G	50/50	50
PT305070	50	0-120 °C	G1/2B	G+QISP	50/50	25
	50	0-140 °C	G1/2B	G+QISP	50/50	50
PT30587001	50	0-200 °C	G1/2B	G	50/50	50
	50	0-250 °C	G1/2B	G	50/50	50
PT306470	50	0-350 °C	G1/2B	G	50/50	50
PT31987001	100	-30+50 °C	G1/2B	G	50/50	25
PT31447001	100	0-60 °C	G1/2B	G	50/50	25
	100	0-80 °C	G1/2B	G	50/50	50
PT315070	100	0-120 °C	G1/2B	G+QISP	50/50	25
	100	0-140 °C	G1/2B	G+QISP	50/50	50
PT31587001	100	0-200 °C	G1/2B	G	50/50	50
PT31607001	100	0-250 °C	G1/2B	G	50/50	50
PT316470	100	0-350 °C	G1/2B	G	50/50	50
	100	0-500 °C	G1/2B	G	50/50	50
	150	-30+50 °C	G1/2B	G	50/50	50
	150	0-60 °C	G1/2B	G	50/50	50
	150	0-80 °C	G1/2B	G	50/50	50
PT32507001	150	0-120 °C	G1/2B	G+QISP	50/50	50
	150	0-200 °C	G1/2B	G	50/50	50
PT32607001	150	0-250 °C	G1/2B	G	50/50	50
	150	0-350 °C	G1/2B	G	50/50	50
PT32687000	150	0-500 °C	G1/2B	G	50/50	50
	200	-30+50 °C	G1/2B	G	40/40	40
	200	0-60 °C	G1/2B	G	40/40	40
	200	0-80 °C	G1/2B	G	40/40	40
PT335070	200	0-120 °C	G1/2B	G+QISP	40/40	40
	200	0-200 °C	G1/2B	G	40/40	40
	200	0-250 °C	G1/2B	G	40/40	40
	200	0-350 °C	G1/2B	G	40/40	40
PT33687000	200	0-500 °C	G1/2B	G	40/40	40
	300	-30+50 °C	G1/2B	G	32/32	32
	300	0-60 °C	G1/2B	G	32/32	32
	300	0-80 °C	G1/2B	G	32/32	32
PT34507000	300	0-120 °C	G1/2B	G+QISP	32/32	32
	300	0-200 °C	G1/2B	G	32/32	32
	300	0-250 °C	G1/2B	G	32/32	32
	300	0-350 °C	G1/2B	G	32/32	32
PT34687000	300	0-500 °C	G1/2B	G	32/32	32



TB-80

DN80 thermometers.

Part No	Stem (mm)	Scale Range	Connec.	Options*	Box/ Master	Min. order
PT409870	50	-30+50 °C	G1/2B	G	50/50	25
PT404470	50	0-60 °C	G1/2B	G	50/50	25
	50	0-80 °C	G1/2B	G	50/50	50
PT405070	50	0-120 °C	G1/2B	G+QISP	50/50	25
	50	0-140 °C	G1/2B	G+QISP	50/50	50
PT406170	50	0-200 °C	G1/2B	G	50/50	50
	50	0-250 °C	G1/2B	G	50/50	50
	50	0-350 °C	G1/2B	G	50/50	50
PT419870	100	-30+50 °C	G1/2B	G	50/50	25
PT414470	100	0-60 °C	G1/2B	G	50/50	25
PT41457001	100	0-80 °C	G1/2B	G	50/50	50
PT415070	100	0-120 °C	G1/2B	G+QISP	50/50	25
	100	0-140 °C	G1/2B	G+QISP	50/50	50
PT415870	100	0-200 °C	G1/2B	G	50/50	50
PT41607001	100	0-250 °C	G1/2B	G	50/50	50
PT41647000	100	0-350 °C	G1/2B	G	50/50	50
PT41687001	100	0-500 °C	G1/2B	G	50/50	50
PT429870	150	-30+50 °C	G1/2B	G	50/50	50
	150	0-60 °C	G1/2B	G	50/50	50
PT424670	150	0-80 °C	G1/2B	G	50/50	50
PT425070	150	0-120 °C	G1/2B	G+QISP	50/50	50
	150	0-200 °C	G1/2B	G	50/50	50
PT42607001	150	0-250 °C	G1/2B	G	50/50	50
	150	0-350 °C	G1/2B	G	50/50	50
PT42687001	150	0-500 °C	G1/2B	G	50/50	50
	200	-30+50 °C	G1/2B	G	40/40	40
	200	0-60 °C	G1/2B	G	40/40	40
	200	0-80 °C	G1/2B	G	40/40	40
PT435070	200	0-120 °C	G1/2B	G+QISP	40/40	40
PT43687001	200	0-200 °C	G1/2B	G	40/40	40
	200	0-250 °C	G1/2B	G	40/40	40
PT43647001	200	0-350 °C	G1/2B	G	40/40	40
	200	0-500 °C	G1/2B	G	40/40	40
	300	-30+50 °C	G1/2B	G	40/40	40
	300	0-60 °C	G1/2B	G	40/40	40
	300	0-80 °C	G1/2B	G	40/40	40
PT445070	300	0-120 °C	G1/2B	G+QISP	40/40	40
PT44587000	300	0-200 °C	G1/2B	G	40/40	40
	300	0-250 °C	G1/2B	G	40/40	40
	300	0-350 °C	G1/2B	G	40/40	40
PT44687000	300	0-500 °C	G1/2B	G	40/40	40



TB-100

DN100 thermometers.

Part No	Stem (mm)	Scale Range	Connec.	Options*	Box/ Master	Min. order
PT509870	50	-30+50 °C	G1/2B	G	32/32	16
PT504470	50	0-60 °C	G1/2B	G	32/32	16
	50	0-80 °C	G1/2B	G	32/32	32
PT505070	50	0-120 °C	G1/2B	G+QISP	32/32	16
	50	0-140 °C	G1/2B	G+QISP	32/32	32
PT505870	50	0-200 °C	G1/2B	G	32/32	32
	50	0-250 °C	G1/2B	G	32/32	32
	50	0-350 °C	G1/2B	G	32/32	32
PT519870	100	-30+50 °C	G1/2B	G	32/32	16
PT514470	100	0-60 °C	G1/2B	G	32/32	16
	100	0-80 °C	G1/2B	G	32/32	32
PT515070	100	0-120 °C	G1/2B	G+QISP	32/32	16
	100	0-140 °C	G1/2B	G+QISP	32/32	32
PT515870	100	0-200 °C	G1/2B	G	32/32	32
	100	0-250 °C	G1/2B	G	32/32	32
PT516470	100	0-350 °C	G1/2B	G	32/32	32
PT51687000	100	0-500 °C	G1/2B	G	32/32	32
	150	-30+50 °C	G1/2B	G	32/32	32
PT52447000	150	0-60 °C	G1/2B	G	32/32	32
	150	0-80 °C	G1/2B	G	32/32	32
PT525070	150	0-120 °C	G1/2B	G+QISP	32/32	32
PT52587000	150	0-200 °C	G1/2B	G	32/32	32
PT52607000	150	0-250 °C	G1/2B	G	32/32	32
PT526470	150	0-350 °C	G1/2B	G	32/32	32
	150	0-500 °C	G1/2B	G	32/32	32
PT539870	200	-30+50 °C	G1/2B	G	32/32	32
	200	0-60 °C	G1/2B	G	32/32	32
	200	0-80 °C	G1/2B	G	32/32	32
PT535070	200	0-120 °C	G1/2B	G+QISP	32/32	32
	200	0-200 °C	G1/2B	G	32/32	32
	200	0-250 °C	G1/2B	G	32/32	32
PT536470	200	0-350 °C	G1/2B	G	32/32	32
	200	0-500 °C	G1/2B	G	32/32	32
	300	-30+50 °C	G1/2B	G	20/20	20
PT54447001	300	0-60 °C	G1/2B	G	20/20	20
	300	0-80 °C	G1/2B	G	20/20	20
PT54507001	300	0-120 °C	G1/2B	G+QISP	20/20	20
	300	0-200 °C	G1/2B	G	20/20	20
	300	0-250 °C	G1/2B	G	20/20	20
PT546470	300	0-350 °C	G1/2B	G	20/20	20
	300	0-500 °C	G1/2B	G	20/20	20

***Options included**

G = Complete with brass pocket
QISP = Dial according to INAIL standards

Customizations per minimum order quantity

Customizations	Model
G INOX - Stainless steel pocket	TB-33-40-52-63-80-100
Customized dials, other scale ranges or connections on request	TB-33-40-52-63-80-100

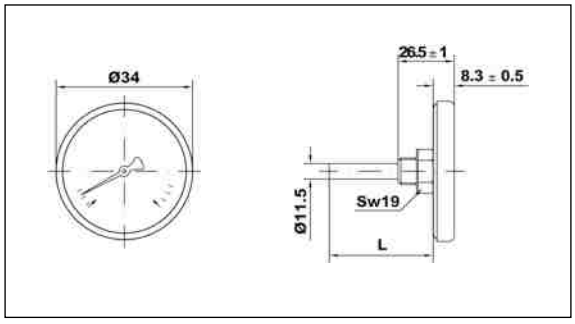
Features

Materials	TB-33 TB-40	TB-52	TB-63 TB-80 TB-100
Case	Zinc-plated steel	Zinc-plated steel	Zinc-plated steel
Bezel ring	Chrome-plated steel	Chrome-plated steel	Chrome-plated steel
Window	Clear plastic	Clear plastic, > 120°C instrument glass	Clear plastic, > 120°C instrument glass
Dial	Aluminium white	Aluminium white	White plastic > 120°C aluminium
Pointer	Black plastic	Black plastic, > 120°C black aluminium	Black plastic, > 120°C black aluminium
Stem	Zinc-plated steel Ø 9 mm	Zinc-plated steel Ø 9 mm	Zinc-plated steel Ø 9 mm
Temperature element	Bimetal, spiralled	Bimetal, spiralled	
Pocket	Brass, 19 mm flats with fixing screw	Brass, 19 mm flats with fixing screw	Brass up to length 100 mm, above brass-copper 19 mm flats with fixing screw

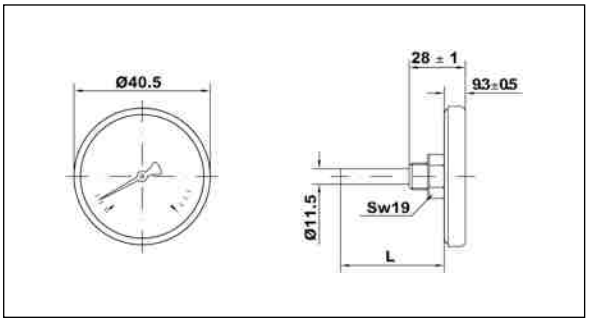
Technical features	
Design	*EN 13190*
Temperature limits	Ambient: -20 ... +60 °C Medium: as per scale indication Storage: -20 ... +60 °C
Operating temperature	As per scale indication
Temperature effect	Not applicable
Accuracy class	cl. 2
Degree of protection	IP 31 per EN 60 529/IEC 529
Individual weight: TB-33 TB-40 TB-52 TB-63 TB-80 TB-100	 0.046 kg 0.060 kg 0.100 kg 0.110 kg 0.150 kg 0.220 kg

Overall dimensions (mm)

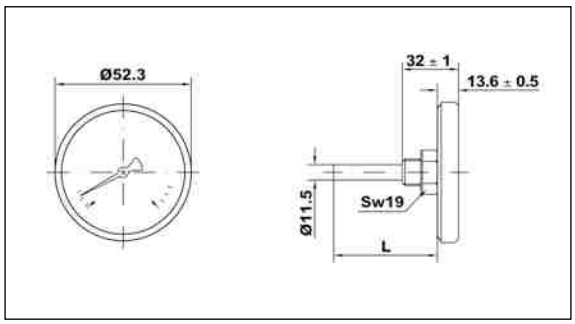
TB-33



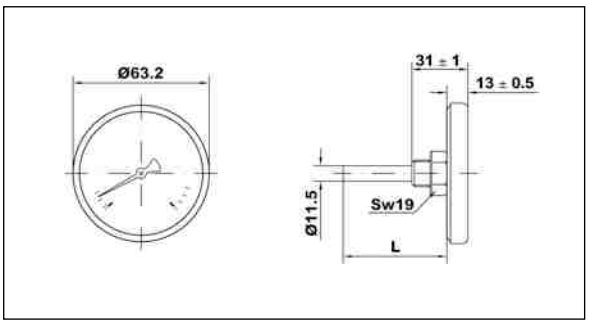
TB-40



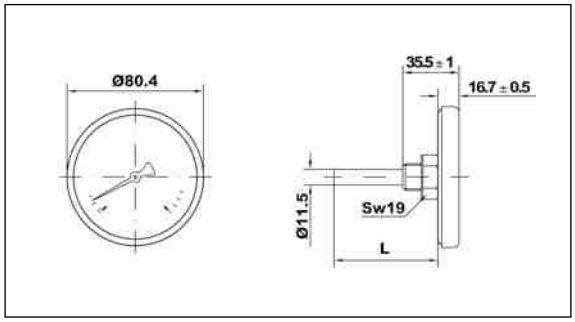
TB-52



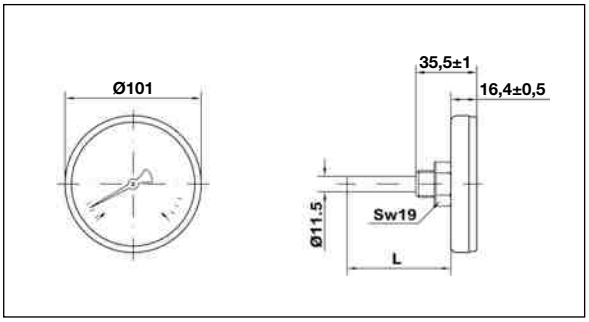
TB-63



TB-80



TB-100



Specification text

Bimetal Thermometers **Series TB**, Watts brand, for domestic and industrial heating, gases and liquids not viscous, not aggressive and not crystallising. Zinc-plated steel case DN 40-50-63-80-100 **back connection, with chrome-plated steel bezel ring**. Measures range from 0-60°C up to 500°C/-30+50°C. Zinc-plated stem DN 9, lenght 50-100-150-200-300 mm. **Complete with brass pocket** 19 mm flats with fixing screw. Temperature limits as per scale indication. Accuracy class cl. 2.0.
Compliant with EN 13190.

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