

## Main Specifications

## ▼ Size

3" , 4" , 6"

## ▼ Installation type

Back mount

## ▼ Window

Acrylic

## ▼ Process connection

Material: SS304

Thread size:

1/4" , 3/8" , 1/2" , 3/4" , 1"

Thread type:

BSPT, NPT, PF

## ▼ Stem

Material: SS304 / SS316

Outer diameter: 6.35mm

Length: 63.5mm ~ 2032mm

## ▼ Temperature range

Min. -50°C

Max. +600°C

## ▼ Applicable media

Liquid and gas that compatible with SS304

## ▼ Protection level

IP 54

## Other Specifications

## ▼ Ring

Stainless steel

Crimp bezel

## ▼ Case

SS304

With external adjustable screw

## ▼ Wiring type

Visual wiring (FL) /

Visual magnet base with junction box (JB)

## ▼ Contact type

Sliding switch SPST

## ▼ Contact function

Single contact N.O. (1a)/

Single contact N.C. (1b)/

Double contacts N.O.+N.C. (1a1b) /

Double contacts N.C.+N.O. (1b1a) /

Double contacts N.O.x2 (2a) /

Double contacts N.C.x2 (2b)

For more information please refer to single / double contacts wiring

## ▼ Contact material

80% silver, 20% nickel, 10µm gold-plated (&gt;110V)

Gold (≤36V)

## ▼ Number of contacts

SPSTx1 / SPSTx2 / SPSTx4

## ▼ Pointer

Aluminum with black enamel

## ▼ Dial face

Red and black scale

Pressure unit, scale, and color can be customized upon request

## ▼ Measuring elements

Bimetal

Temperature sensing area: last 2" ~4" of stem

## ▼ Temperature accuracy

1.5% (Option: 1%)

## ▼ Operating temperature

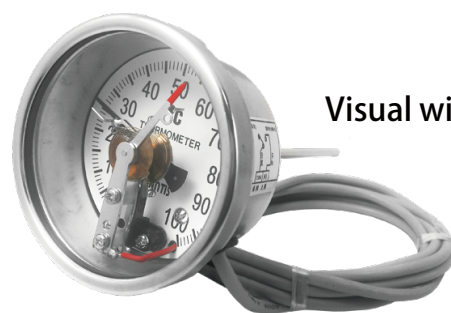
Stabilization: 3/4\* full scale

Short-time: 1\* full scale

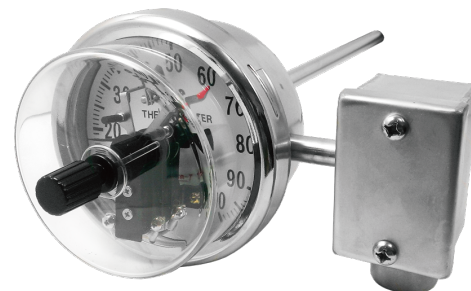
## Bimetal Thermometer with Electrical Contact (Back Mount Type)

### Model: BTTC Introduction

BTTC back mount type thermometer with sliding contact SPST is used to control the facility connected to the thermometer. BTTC has wide temperature measuring range (-50 to 600°C), the stem length and outer diameter can be customized upon request, which makes it suitable for various industrial application.



Visual wiring type



Visual magnet base with junction box



Due to the variety of customization, the picture is only for reference, please confirm the actual item with our sales. (If there is any change on specification, please take the latest version as standard.)

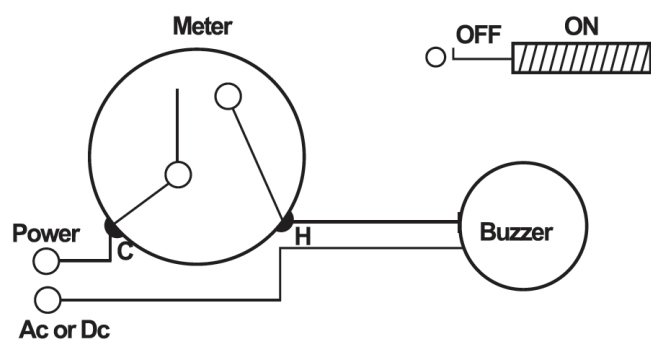
## Features

- OEM service
- Adopts sliding switch SPST, various contact functions
- All stainless steel design
- Full scale accuracy within 1.5%
- Customized stem length and outer diameter
- With external adjustable screw
- Dual temperature unit scale °C/°F

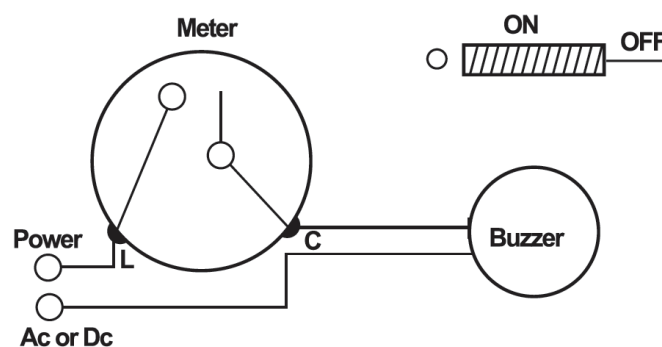
## Power parameter

Voltage	DC	AC	Inductive load
230V	100mA	120mA	65mA
110V	200mA	240mA	130mA
50V	300mA	450mA	200mA
24V	400mA	600mA	250mA
Capacity 18W / ~30VA			

## Contact wiring



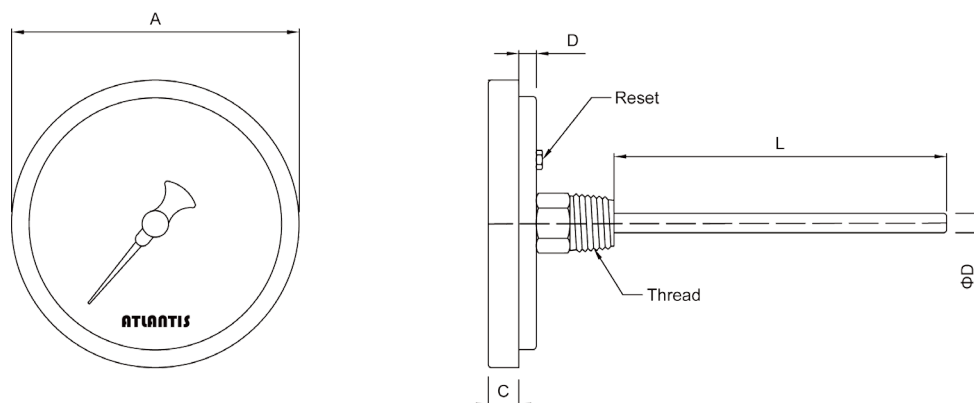
Single contact N.O. (1a)



Single contact N.C. (1b)

Double contacts		
	<p>When the pressure indicator reaches left set point (green pointer), "1" contact breaks (circuit open);</p> <p>When the pressure indicator reaches right set point (red pointer), "2" contact makes (circuit close) (NO+NC)</p> <p>&lt;Positive pressure: left→right&gt;</p> <p>Switch mode: SPST X 2</p>	1a1b
	<p>When the pressure indicator reaches left set point (red pointer), "1" contact makes (circuit close)</p> <p>When the pressure indicator reaches right set point (green pointer), "2" contact breaks (circuit open) (NC+NO)</p> <p>&lt;Positive pressure: left→right&gt;</p> <p>Switch mode: SPST X 2</p>	1b1a
	<p>When the pressure indicator reaches left set point (yellow pointer), "1" contact makes (circuit close)</p> <p>When the pressure indicator reaches right set point (red pointer), "2" contact makes (circuit close) (NO x 2)</p> <p>&lt;Positive pressure: left→right&gt;</p> <p>Switch mode: SPST X 2</p>	2a
	<p>When the pressure indicator reaches left set point (green pointer), "1" contact breaks (circuit open)</p> <p>When the pressure indicator reaches right set point (yellow pointer), "2" contact breaks (circuit open) (NC x 2)</p> <p>&lt;Positive pressure: left→right&gt;</p> <p>Switch mode: SPST X 2</p>	2b

## Dimension



## How to order

BTTC Bimetal Thermometer with Electrical Contact (Back Mount Type)									
Std.	Spec.	Code	Item	Code	Item	Code	Item	Code	Item
04	Size	03	3"	04	4"	06	6"	—	—
FL	Wiring type	FL	Visual wiring	JB	Visual magnet base with junction box	—	—	—	—
1a1b	Contact function	1a	N.O.	1b	N.C.	1a1b	N.O.+N.C.	1b1a	N.C.+N.O.
		2a	N.O.x2	2b	N.C.x2	—	—	—	—
2	Contact numbers	1	SPSTx1	2	SPSTx2	4	SPSTx4	—	—
4	Thread size	2	1/4"	3	3/8"	4	1/2"	6	3/4"
		8	1"	O	Others	—	—	—	—
P	Thread type	P	BSPT	N	NPT	F	PF	O	Others
304	Stem material	304	SS304	316	SS316	O	Others	—	—
Custom	Stem outer diameter	Standard: 6.35mm Other stem outer diameter available upon request							
Custom	Stem length	Standard: 63.5mm Other stem length available upon request							
Custom	Temperature range	-50 to 600°C							
/D	Other requests	/A	Third party notarized documents			/B	Inspection report		
		/C	Tag			/D	Customized dial (scale, color, unit, etc.)		
		/E	Thermowell (thermowell specifications are customized according to the selected stem specifications)			/F	Accuracy: 1%		
		/G	Install an swivel nut on connection			/H	Case material SS316		
		/I	Window - silicone rubber O-ring sealed			/J	Remove stem thread (min. 35mm 200~300°C)		

Order example: BTTC - 04 - FL - 1a1b - 2 - 4 - P - 304 - 6.35mm - 63.5mm - (0 to 100°C) + /D