

Main Specifications

- ▼ Size  
3" , 4" , 6"
- ▼ Installation type  
Adjustable angle installation
- ▼ 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 (>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 (Adjustable Angle Type)

## Model: BTAC

### Introduction

BTAC adjustable angle type thermometer with sliding contact SPST is used to control the facility connected to the thermometer. BTAC 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.



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.)

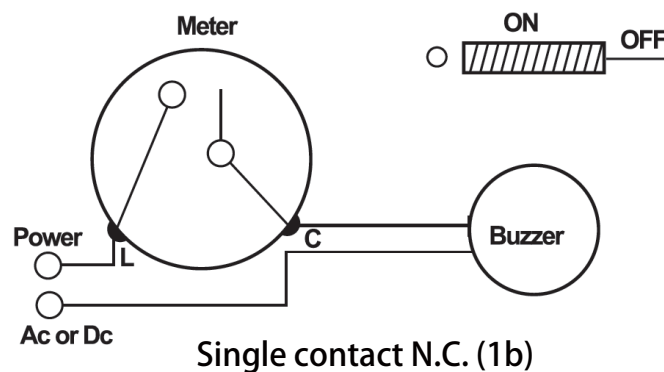
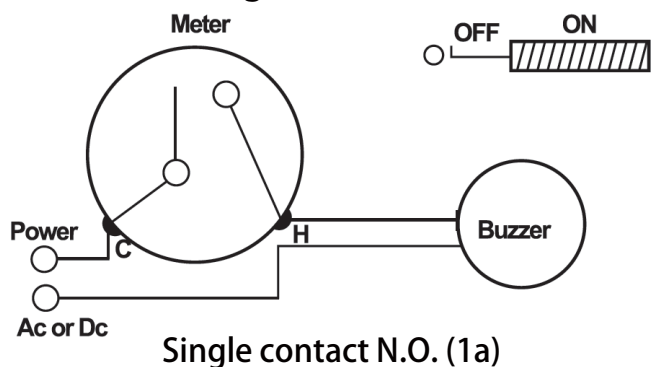
### Features

- OEM service
- Adjustable angle type thermometer
- Adopts sliding switch SPST with various contact function
- All stainless steel design
- Full scale accuracy within 1.5%
- Stem length and outer diameter can be customized upon request
- 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



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

## How to order

### BTAC Bimetal Thermometer with Electrical Contact (Adjustable Angle 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	H	Concealed magnet base with junction box	–	–
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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	–	–
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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
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304	Stem material	304	SS304	316	SS316	O	Others	–	–
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Custom	Stem outer diameter	Standard: 6.35mm Other stem outer diameter available upon request							
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Custom	Stem length	Standard: 63.5mm Other stem length available upon request							
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Custom	Temperature range	-50 to 600°C							
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/D	Other requests	/A	Third party notarized documents	/B	Inspection report
		/C	Tag	/D	Customized dial face (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: BTAC - 04 - FL - 1a1b - 2 - 4 - P - 304 - 6.35mm - 63.5mm - (0 to 100°C) + /D