

# Liquid Filled Type Thermometer

## Model No. SS-4010 Series



SS-4010 100mm

### Summary

The scale interval of this instrument is divided equally. Therefore, it is easy to read the scale when measuring the temperature. As the driving power is strong, the indicator indicates certainly and it is widely used for industrial use because the temperature transmission speed is very fast.

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.

### Purpose of Use

- Various boilers
- Dyeing machines
- Petrochemistry plant
- Measurement of inner temperature of a tank
- Ships, etc.
- LPG, LNG gas line

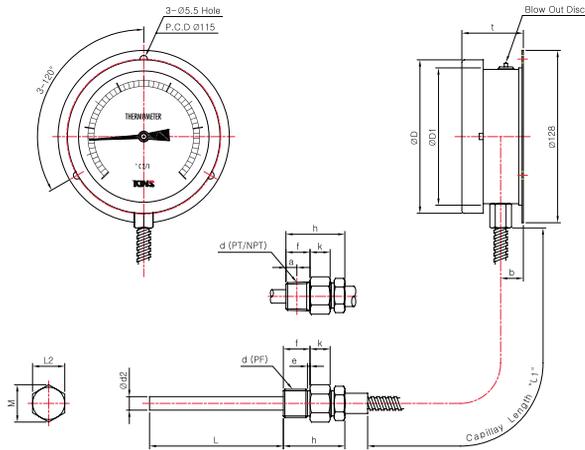
### Production Specification

- ▶ Diameter
  - 100 mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

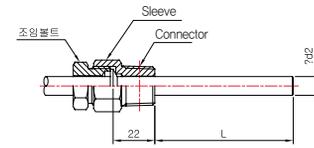
- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· STS 304</li> </ul> </li> <li>+ Cover                             <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Slip-on-Fit</li> </ul> </li> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 316</li> <li>· PF, PT, NPT ↔ 1/2</li> </ul> </li> <li>+ Window                             <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· B-Type(Surface type)</li> <li>· BD-Type(Panel attachment type)</li> </ul> </li> <li>+ Panel attachment type                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Black coating</li> </ul> </li> <li>+ Capillary Tube                             <ul style="list-style-type: none"> <li>· Standard 2 M (Maximum 10 M)</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>+ Stem                             <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> </ul> </li> <li>+ Stem O,D                             <ul style="list-style-type: none"> <li>· <math>\varnothing 8, \varnothing 10, \varnothing 12</math></li> </ul> </li> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Titanium, Monel, Hastelloy</li> <li>· Teflon Lining, Glass Lining</li> </ul> </li> </ul> |
|--|--|--|

## Model No. | SS-4011 (100mm) B-Type(Surface type)

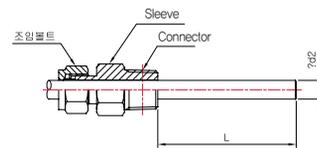


## Form of the part of detecting temperature

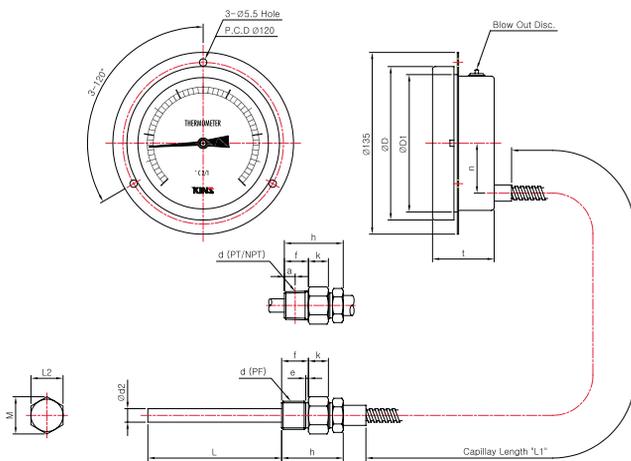
1) Union type (Standard)



2) Adjustable type



## Model No. | SS-4012 (100mm) BD-Type(Pannel attachment type)



## Standard manufacturing temperature and minimal length for the part of detecting the temperature

KINS	Stem Dia (mm)			
	Ø8	Ø10	Ø12	
Standard Manufacturing Temperature (°C)	-20 ~ 80	50	60	50
	-20 ~ 100	50	60	50
	0 ~ 50	83	60	50
	0 ~ 80	50	60	50
	0 ~ 100	50	60	50
	0 ~ 120	50	60	50
	0 ~ 150	50	60	50
	0 ~ 200	50	60	50
	0 ~ 250	50	60	50
	0 ~ 300	50	60	50
	0 ~ 350	75	53	50
	0 ~ 400	70	53	48
	0 ~ 500	62	48	44
0 ~ 650	55	45	42	

### Dimensions (mm)

Model No.	Conn'h (d)	ØD	ØD1	b	n	t	L2	M	k	Ød2	h	f	e	a
SS-4011	PF 1/2	114	100	17	-	(46)	24	(27.7)	17	8 10 12	(50)	20	2	-
	NPT & PT 1/2										(48)	18	-	8.16
SS-4012	PF 1/2	114	100	-	37	(46)	24	(27.7)	17	8 10 12	(50)	20	2	-
	NPT & PT 1/2										(48)	18	-	8.16

\*( )The measurement in the blanket is approximate.

# Liquid Filled Type Thermometer

## Model No. SS-4010 Series



SS-4010 150mm

### Summary

The scale interval of this instrument is divided equally. Therefore, it is easy to read the scale when measuring the temperature. As the driving power is strong, the indicator indicates certainly and it is widely used for industrial use because the temperature transmission speed is very fast.

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.

### Purpose of Use

- Various boilers
- Dyeing machines
- Petrochemistry plant
- Measurement of inner temperature of a tank
- Ships, etc.
- LPG, LNG gas line

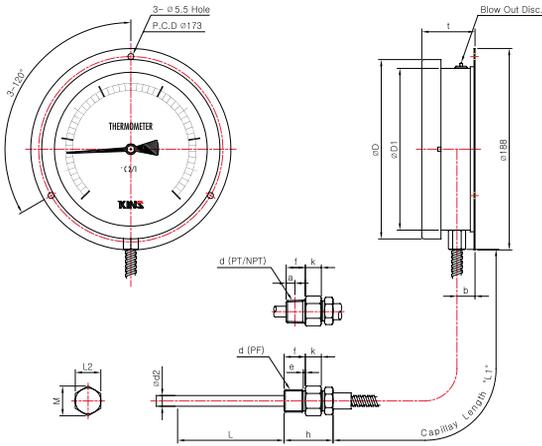
### Production Specification

- ▶ Diameter
  - 150 mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

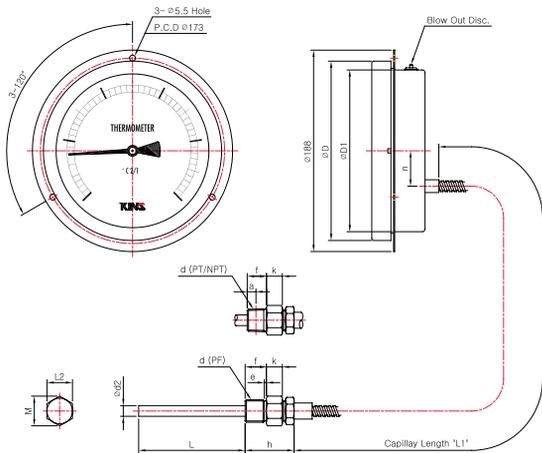
### Product Specification

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· STS 304</li> </ul> </li> <li>+ Cover                             <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Slip-on-Fit</li> </ul> </li> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2</li> </ul> </li> <li>+ Window                             <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· B-Type(Surface type)</li> <li>· BD-Type(Panel attachment type)</li> </ul> </li> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Black coating</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>+ Capillary Tube                             <ul style="list-style-type: none"> <li>· Standard 2 M (Maximum 10 M)</li> </ul> </li> <li>+ Stem                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> </ul> </li> <li>+ Stem O,D                             <ul style="list-style-type: none"> <li>· <math>\varnothing 8, \varnothing 10, \varnothing 12</math></li> </ul> </li> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· Titanium, Monel, Hastelloy</li> <li>· Teflon Lining, Glass Lining</li> </ul> </li> </ul> |
|--|--|--|

## Model No. | SS-4011 (150mm) B-Type(Surface type)



## Model No. | SS-4012 (150mm) BD-Type(Panel attachment type)



\* Other details are the same as SS-4010 100mm Series

### Dimensions (mm)

Model No.	Conn'n (d)	ØD	ØD1	b	n	t	L2	M	k	Ød2	h	f	e	a
SS-4011	PF 1/2	170	156	17	-	(50)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2									10	(48)	18	-	8,16
SS-4012	PF 1/2	170	156	-	33	(50)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2									10	(48)	18	-	8,16

\* ( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Liquid Filled Type Thermometer (with Contact)

Model No. **SS-4020 Series**



SS-4020 100mm

## Summary

The principle and structure of this temperature measurement instrument is the same as the filled thermometer but it produces a contact signal when there is an increase or decrease of temperature by installing the indicator for high and low set-up.

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.

### Purpose of Use

- Various temperature control, information system
- Various boilers
- Petrochemistry plant
- Transformer, etc

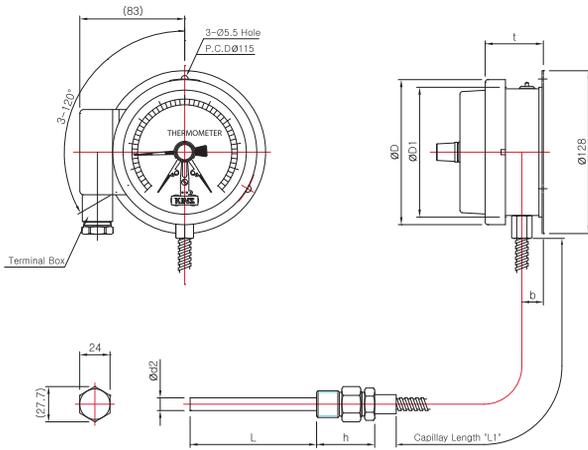
### Production Specification

- ▶ Diameter
  - 100 mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

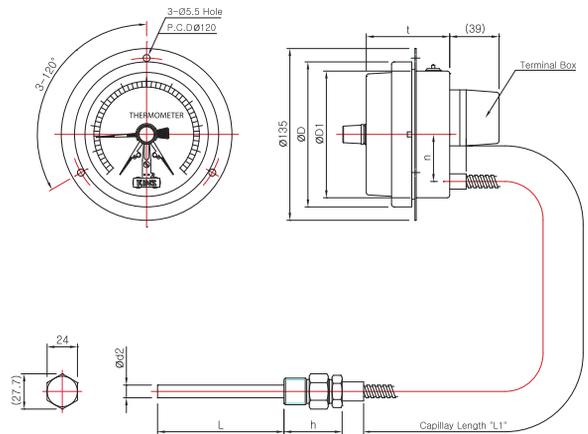
### Product Specification

<ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· STS 304</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· B-Type(Surface type)</li> <li>· BD-Type(Panel attachment type)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact rating                             <ul style="list-style-type: none"> <li>· AC 125V 0,5A / 250V 0,25A</li> <li>· DC 24V 0,25A</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Cover                             <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Slip-on-Fit</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact type                             <ul style="list-style-type: none"> <li>· High and Low 2 contact (High or Low, High &amp; High, High &amp; Low, Low &amp; Low)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Phosphor bronze</li> <li>· Black coating</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· Titanium, Monel, Hastelloy</li> <li>· Teflon Lining, Glass Lining</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Window                             <ul style="list-style-type: none"> <li>· Poly Carbonate</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Capillary Tube                             <ul style="list-style-type: none"> <li>· Standard 2 M (Maximum 10 M)</li> </ul> </li> </ul>	

## Model No. | SS-4021 100mm B-Type(Surface type)



## Model No. | SS-4022 100mm BD-Type(Panel attachment type)

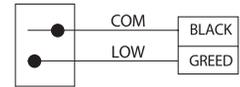


### Connection diagram

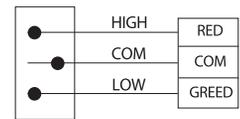
#### High 1 contact (H)



#### Low 1 contact (L)



#### High & Low 2 contact (H · L)



\* Other details are the same as SS-4010 100mm Series

### Dimensions (mm)

Model No.	Conn'h (d)	ØD	ØD1	b	n	t	L2	M	k	Ød2	h	f	e	a
SS-4021	PF 1/2	114	100	17	-	(56)	24	(27.7)	17	8 10 12	(50)	20	2	-
	NPT & PT 1/2										(48)	18	-	8.16
SS-4022	PF 1/2	114	100	-	37	(56)	24	(27.7)	17	8 10 12	(50)	20	2	-
	NPT & PT 1/2										(48)	18	-	8.16

\* ( )The measurement in the blanket is approximate.

# Liquid Filled Type Thermometer (with Contact)

Model No. **SS-4020 Series**



SS-4020 150mm

## Summary

The principle and structure of this temperature measurement instrument is the same as the filled thermometer but it produces a contact signal when there is an increase or decrease of temperature by installing the indicator for high and low set-up.

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.

### Purpose of Use

- Various temperature control, information system
- Various boilers
- Petrochemistry plant
- Transformer, etc

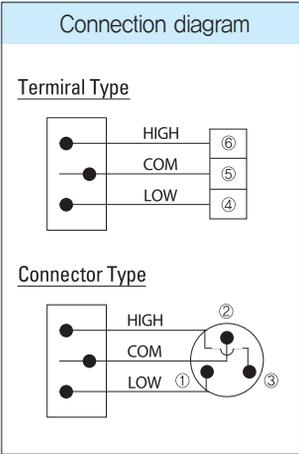
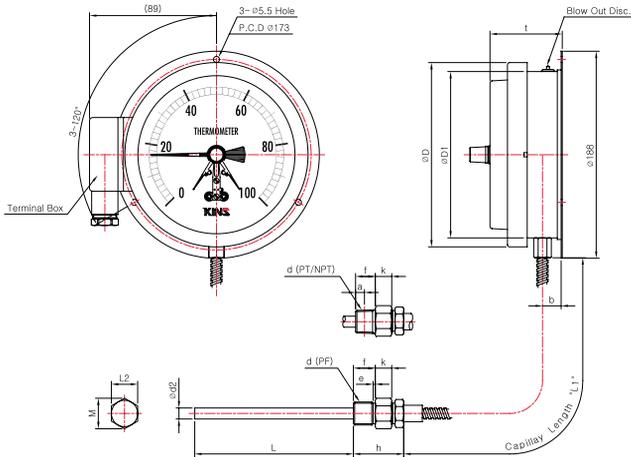
### Production Specification

- ▶ Diameter
  - 150 mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

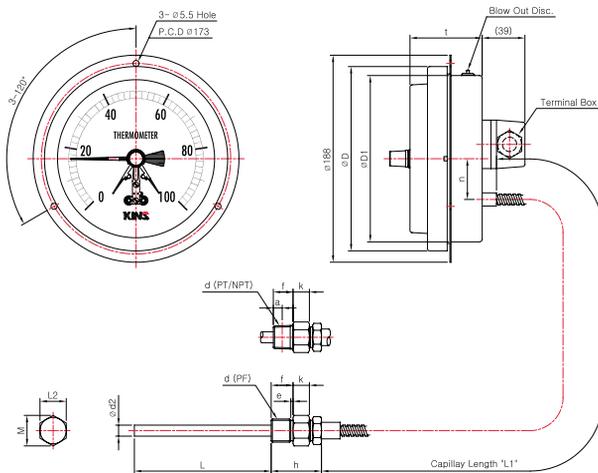
### Product Specification

<ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· STS 304</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· B-Type(Surface type)</li> <li>· BD-Type(Panel attachment type)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact rating                             <ul style="list-style-type: none"> <li>· AC 125V 0,5A / 250V 0,25A</li> <li>· DC 24V 0,25A</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Cover                             <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Slip-on-Fit</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact type                             <ul style="list-style-type: none"> <li>· High and Low 2 contact (High or Low, High &amp; High High &amp; Low, Low &amp; Low)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Phosphor bronze</li> <li>· Black coating</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· Titanium, Monel, Hastelloy Teflon Lining, Glass Lining</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Window                             <ul style="list-style-type: none"> <li>· Poly Carbonate</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Capillary Tube                             <ul style="list-style-type: none"> <li>· Standard 2 M (Maximum 10 M)</li> </ul> </li> </ul>	

## Model No. | SS-4021 (150mm) B-TYPE(Surface type)



## Model No. | SS-4022 (150mm) BD-TYPE(Panel attachment type)



\* Other details are the same as SS-4010 100mm Series

### Dimensions (mm)

Model No.	Conn'n (d)	ØD	ØD1	b	n	t	L2	M	k	Ød2	h	f	e	a
SS-4021	PF 1/2	170	156	17	-	(66)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2									10	(48)	18	-	8.16
SS-4022	PF1/2	170	156	-	37	(66)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2									10	(48)	18	-	8.16

\* ( )The measurement in the blanket is approximate.

# Liquid Filled Thermometer Transformer

Model No. **SS-4023 Series**



SS-4023 100mm

## Summary

The principle and structure of this temperature measurement instrument is the same as the filled thermometer but it produces a contact signal when there is an increase or decrease of temperature by installing the set-up indicator for high and low.

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.
- Connect under the rated voltage.

### Purpose of Use

- Various temperature control, information system
- Various boilers
- Petrochemistry plant
- Transformer, etc

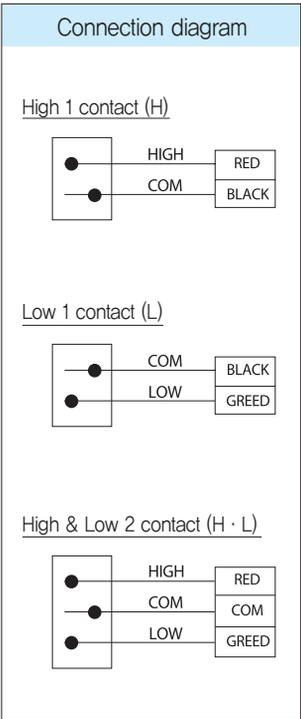
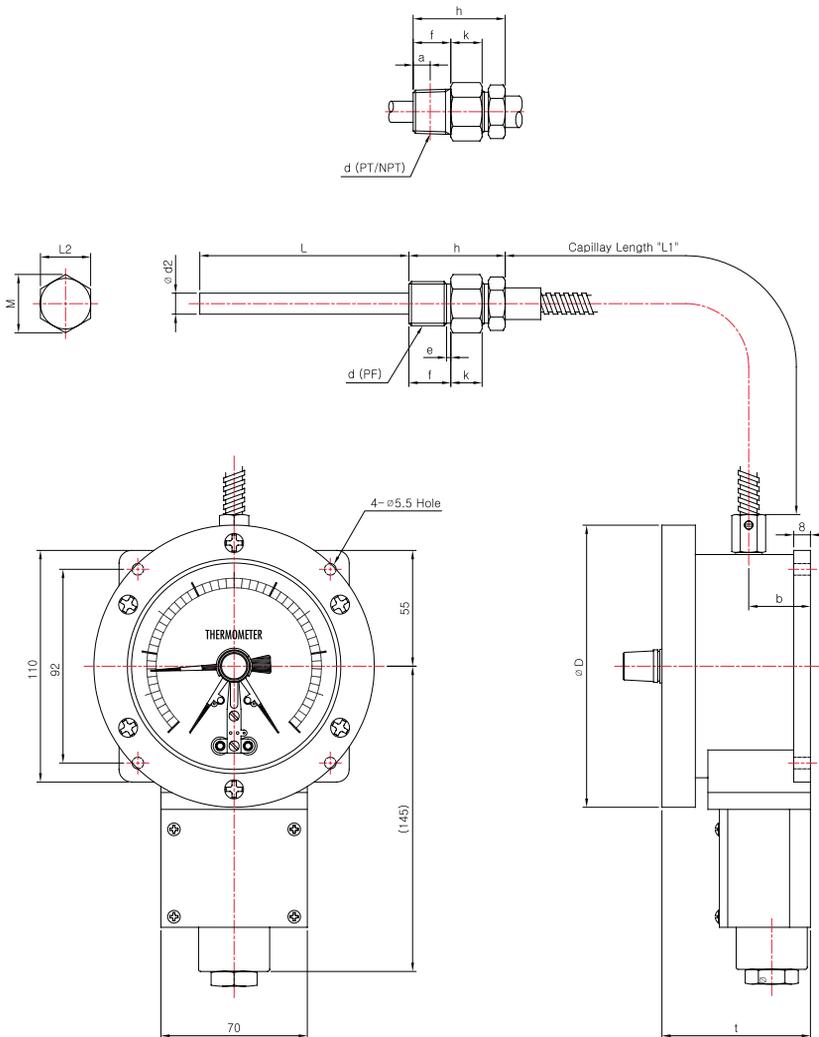
### Production Specification

- ▶ Diameter
  - 100 mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

## Product Specification

<ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· B-Type(Surface type)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact rating                             <ul style="list-style-type: none"> <li>· AC 125V 0,5A / 250V 0,25A</li> <li>· DC 24V 0,25A</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Cover                             <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact type                             <ul style="list-style-type: none"> <li>· High and Low 2 contact (High or Low, High &amp; High High &amp; Low, Low &amp; Low)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Phosphor bronze</li> <li>· Black coating</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· Titanium, Monel, Hastelloy Teflon Lining, Glass Lining</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Window                             <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Capillary Tube                             <ul style="list-style-type: none"> <li>· Standard 2 M (Maximum 10 M)</li> </ul> </li> </ul>	

## Model No. | SS-4023 (100mm) Surface Type



\* Other details are the same as SS-4010 100mm Series

### Dimensions (mm)

Model No.	Con'n (d)	ØD	t	t	L2	M	k	Ød2	h	f	e	a
SS-4023	PF 1/2	114	37	(56)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2							10	(48)	18	-	8.16

\* ( ) The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Liquid Filled Thermometer Transformer

Model No. **SS-4023 Series**



SS-4023 150mm

## Summary

This instrument has a micro switch that produces a contact signal when there is an increase or decrease of temperature by controlling the setting temperature.

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.
- Connect under the rated voltage

### Purpose of Use

- Various temperature control, information system
- Various boilers
- Petrochemistry plant
- Transformer, etc

### Production Specification

- ▶ Diameter
  - 150 mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

## Product Specification

<ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· B-Type(Surface type)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact rating                             <ul style="list-style-type: none"> <li>· AC 125V 0,5A / 250V 0,25A</li> <li>· DC 24V 0,25A</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Cover                             <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact type                             <ul style="list-style-type: none"> <li>· High and Low 2 contact (High or Low, High &amp; High High &amp; Low, Low &amp; Low)</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· PF, PT, NPT ↔ 1/2</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Phosphor bronze</li> <li>· Black coating</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· Titanium, Monel, Hastelloy Teflon Lining, Glass Lining</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Window                             <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Capillary Tube                             <ul style="list-style-type: none"> <li>· Standard 2 M (Maximum 10 M)</li> </ul> </li> </ul>	

Pressure Gauge

Differential Pressure Gauge & Switch

Accessories of Pressure Gauge

Thermometer & Thermometer Switch

Thermocouple & R.T.D

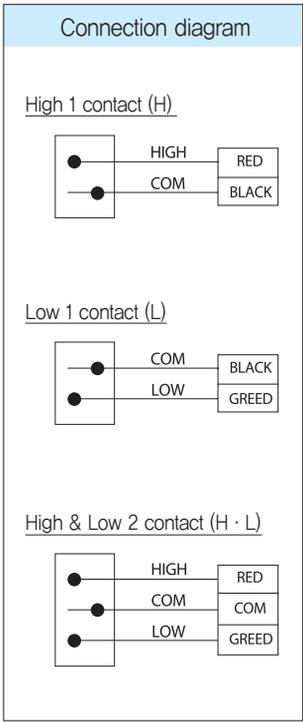
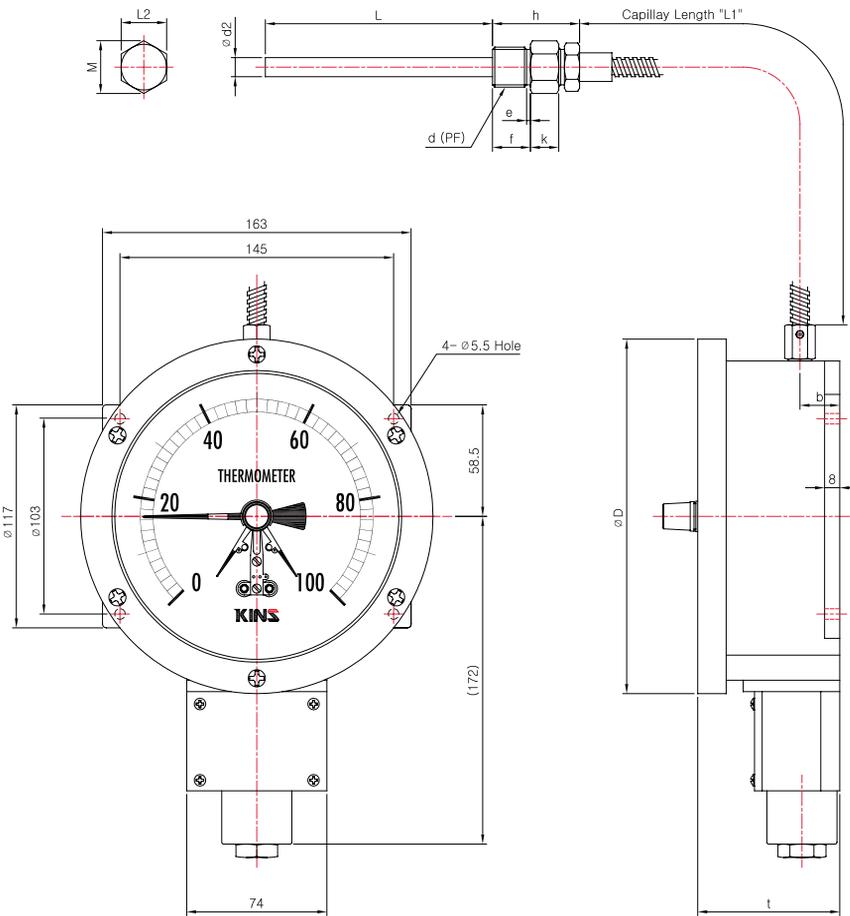
Thermowell

Transmitter

Indicator etc.

Technical data

## Model No. | SS-4023 (150mm) Surface Type



\* Other details are the same as SS-4010 100mm Series

### Dimensions (mm)

Model No.	Conn'n (d)	ØD	t	t	L2	M	k	Ød2	h	f	e	a
SS-4023	PF 1/2	186	21	(75)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2								(48)			

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Liquid Filled Thermometer (with Micro Contact)

Model No. **SS-4025/6 Series**



SS-4025/6

## Summary

This instrument has a micro switch that produces a contact signal when there is an increase or decrease of temperature by controlling the setting temperature.

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.

### Purpose of Use

- Various temperature control, information system
- Various boilers
- Petrochemistry plant
- Transformer, etc

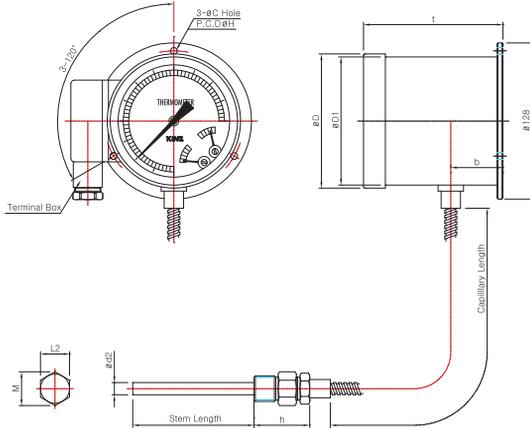
### Production Specification

- ▶ Diameter
  - 100, 150 mm
- ▶ Accuracy
  - Grade :  $\pm 2.0\%$  of Full Scale
  - Repeatability :  $\pm 1.0$  of Adj Range
  - Dead Band :  $\pm 4.0\%$
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> </ul> </li> <li>+ Cover                             <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> </ul> </li> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2</li> </ul> </li> <li>+ Window                             <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· B-Type(Surface type)</li> <li>· BD-Type(Panel attachment type)</li> </ul> </li> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Black coating</li> </ul> </li> <li>+ Capillary Tube                             <ul style="list-style-type: none"> <li>· Standard 2 M (Maximum 10 M)</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>+ Contact rating                             <ul style="list-style-type: none"> <li>· AC 125V 5A / 250V 3A</li> <li>· DC 30V 4A / 125V 0.4A / 250V 0.2A</li> </ul> </li> <li>+ Contact type                             <ul style="list-style-type: none"> <li>· High and Low 2 contact<br/>(High or Low, High &amp; High<br/>High &amp; Low, Low &amp; Low)</li> </ul> </li> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· Titanium, Monel, Hastelloy<br/>Teflon Lining, Glass Lining</li> </ul> </li> </ul> |
|---|---|--|

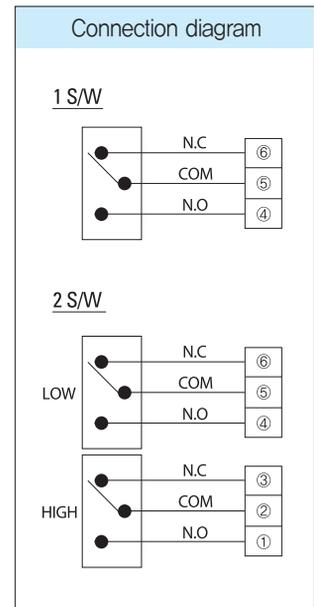
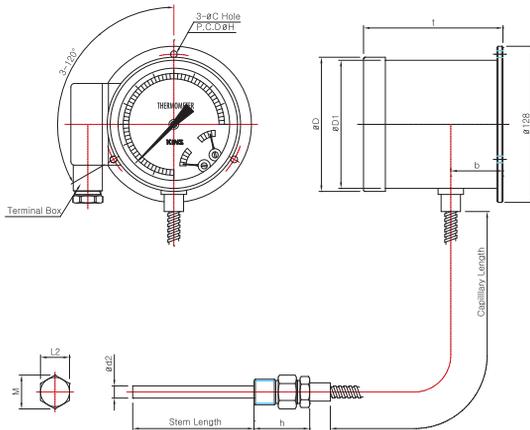
## Model No. | SS-4025 B-Type(Surface type)



Standard production temperature and minimal length in the part of detecting temperature

KINS	Stem Dia (mm)			
	Ø8	Ø10	Ø12	
Standard Manufacturing Temperature (°C)	-20 ~ 80	50	60	50
	-20 ~ 100	50	60	50
	0 ~ 50	83	60	50
	0 ~ 80	50	60	50
	0 ~ 100	50	60	50
	0 ~ 120	50	60	50
	0 ~ 150	50	60	50
	0 ~ 200	50	60	50
	0 ~ 250	50	60	50
	0 ~ 300	50	60	50
	0 ~ 350	75	53	50
	0 ~ 400	70	53	48
	0 ~ 500	62	48	44
	0 ~ 650	55	45	42

## Model No. | SS-4026 BD-Type(Panel attachment type)



\* Other details are the same as SS-4010 100mm Series

### Dimensions (mm)

	Model No.	Conn'n (d)	ØD	ØD1	b	n	t	L2	M	k	Ød2	h	f	e	a
100mm	SS-4025	PF 1/2	110	105	43	-	(115)	24	(27.7)	17	8	(50)	20	2	-
		NPT & PT 1/2									10	(48)	18	-	8.16
	SS-4026	PF 1/2	110	105	-	33	(115)	24	(27.7)	17	8	(50)	20	2	-
		NPT & PT 1/2									10	(48)	18	-	8.16
150mm	SS-4025	PF 1/2	170	156	43	-	(115)	24	(27.7)	17	8	(50)	20	2	-
		NPT & PT 1/2									10	(48)	18	-	8.16
	SS-4026	PF 1/2	170	156	-	33	(115)	24	(27.7)	17	8	(50)	20	2	-
		NPT & PT 1/2									10	(48)	18	-	8.16

\*( )The measurement in the blanket is approximate.

# Liquid Filled Type Thermometer (Direct)

## Model No. SS-4030 Series



SS-4031



SS-4032

### Summary

The scale interval of this instrument is divided equally. Therefore, it is easy to read the scale when measuring the temperature. As the driving power is strong, the indicator indicates certainly and depending on the special condition of the installation place, it can be ordered in various form of bend and can be made by many other ordering ways.

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.

### Purpose of Use

- Various boilers
- dyeing machines
- Petrochemistry plant
- Measuring the inner part temperature of a tank
- Ships
- LPG, LNG gas lines

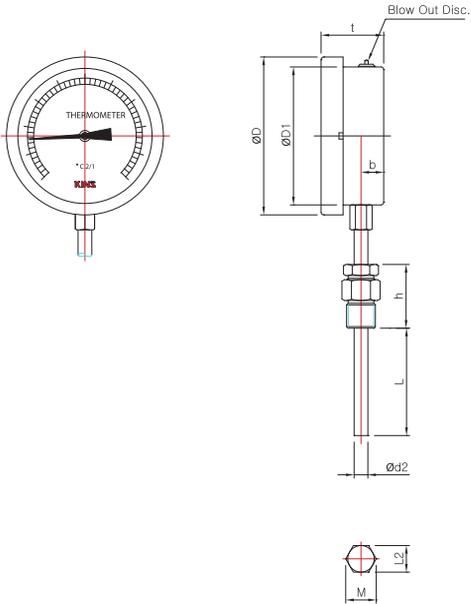
### Production Specification

- ▶ Diameter
  - 100, 150 mm
- ▶ Accuracy
  - Grade :  $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale
- ▶ Degree Of Protection
  - IP65

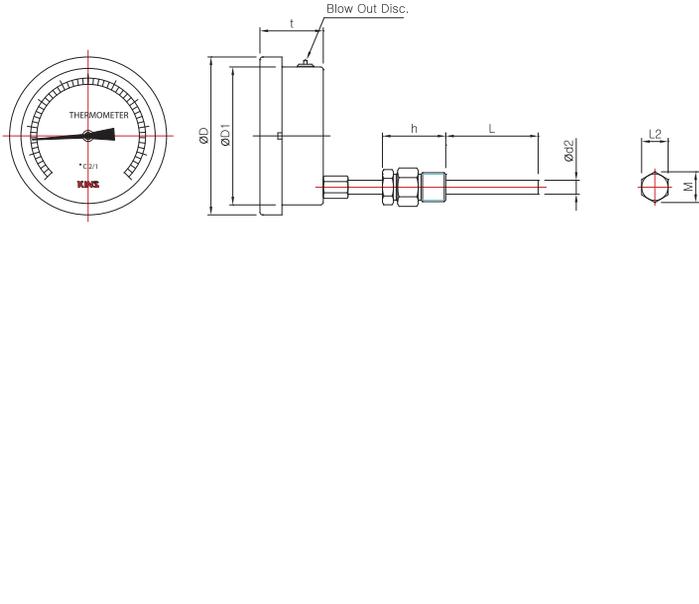
### Product Specification

<ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· STS 304</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Window                             <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Black coating</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Cover                             <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Slip-on-Fit</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· I Type</li> <li>· T Type</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Stem                             <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> <li>· Type : Union Type – Standard type</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· PF, PT, NPT ↔ 1/2</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> <li>· Titanium, Monel, Hastelloy Teflon Lining, Glass Lining</li> </ul> </li> </ul>

## Model No. | SS-4031 I-Type



## Model No. | SS-4032 T-Type



### Dimensions (mm)

	Model No.	Conn'n (d)	ØD	ØD1	b	n	t	L2	M	k	Ød2	h	f	e	a
100mm	SS-4031	PF 1/2	114	100	17	-	(46)	24	(27.7)	17	8	(50)	20	2	-
		NPT & PT 1/2									10	(48)	18	-	8.16
	SS-4032	PF 1/2	114	100	-	37	(46)	24	(27.7)	17	8	(50)	20	2	-
		NPT & PT 1/2									10	(48)	18	-	8.16
150mm	SS-4031	PF 1/2	170	156	17	-	(50)	24	(27.7)	17	8	(50)	20	2	-
		NPT & PT 1/2									10	(48)	18	-	8.16
	SS-4032	PF 1/2	170	156	-	37	(50)	24	(27.7)	17	8	(50)	20	2	-
		NPT & PT 1/2									10	(48)	18	-	8.16

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & SWITCH
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Recording Thermometer

Model No. **SS-4041 Series**



SS-4041 250mm

## Summary

This instrument is designed to record change of pressure with a pen on a record paper by a recording device according to the flow of the time

### Safety Management

- If possible, install a well.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.

### Purpose of Use

- Various boilers
- Checking, observing, recording, etc. for various usage

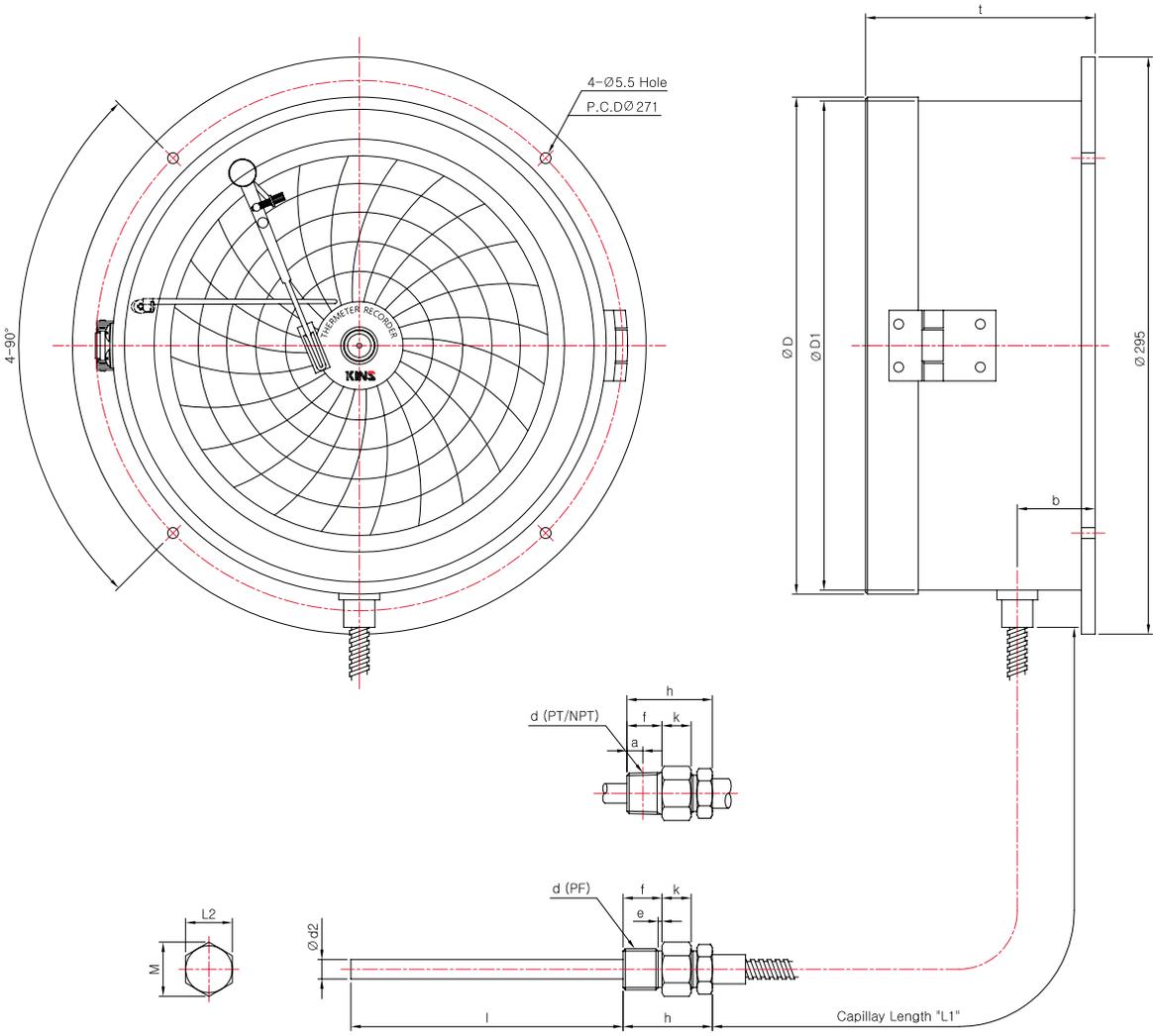
### Production Specification

- ▶ Diameter
  - 250 mm
- ▶ Accuracy
  - Grade :  $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"><li>+ Case<ul style="list-style-type: none"><li>· Aluminum(Black coating)</li></ul></li><li>+ Cover<ul style="list-style-type: none"><li>· Aluminum(Black coating)</li></ul></li><li>+ Connection<ul style="list-style-type: none"><li>· STS 304, 316</li><li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2</li></ul></li><li>+ Window<ul style="list-style-type: none"><li>· General glass</li><li>· Tempered safety glass</li></ul></li></ul> | <ul style="list-style-type: none"><li>+ Type<ul style="list-style-type: none"><li>· Surface Type</li></ul></li><li>+ Chart Paper<ul style="list-style-type: none"><li>· 30Papers</li></ul></li><li>+ Recorder Pen<ul style="list-style-type: none"><li>· Aluminum</li><li>· 1 pen (Temperature)</li><li>· 2 pen (Temperature &amp; Pressure)</li></ul></li><li>+ Revolution Time<ul style="list-style-type: none"><li>· Controlling type <math>\sim</math> 30 min</li><li>(Battery type) 1, 3, 4, 12, 24 hr</li><li>2, 4, 7, 8, 16 Day</li></ul></li></ul> | <ul style="list-style-type: none"><li>+ Capillary Tube<ul style="list-style-type: none"><li>· Standard 2 M (Maximum 10 M)</li><li>(Minimum strength for the part of detecting temperature is two times of the general part)</li></ul></li><li>+ Element<ul style="list-style-type: none"><li>· STS 304, STS 316</li></ul></li><li>+ Well<ul style="list-style-type: none"><li>· STS 304, STS 316</li><li>· Titanium, Monel, Hastelloy</li><li>Teflon Lining, Glass Lining</li></ul></li></ul> |
|--|--|---|

## Model No. | SS-4041 (250mm)



※ The formation of detecting temperature, the standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4010 and the contact type is the same as SS-4025

### Dimensions (mm)

Model No.	Conn'n (d)	ØD	ØD1	b	t	L2	M	k	Ød2	h	f	e	a
SS-4041	PF 1/2	254	250	40	(118)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2								10	(48)	18	-	8.16

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Temperature Switch

Model No. **SS-4050 Series**



**SS-4050 Series**

## Summary

This instrument has a micro switch that produces a contact signal when there is an increase or decrease of temperature by controlling the setting temperature.

### Safety Management

- Be sure to install a protecting device where exist abrupt change of pressure, vibration and pulsation.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the places where steam and poisonous gas exist a lot.
- Connect under the rated voltage

### Purpose of Use

- Various temperature control, information system
- Various boilers
- Petrochemistry plant
- Transformer, etc.

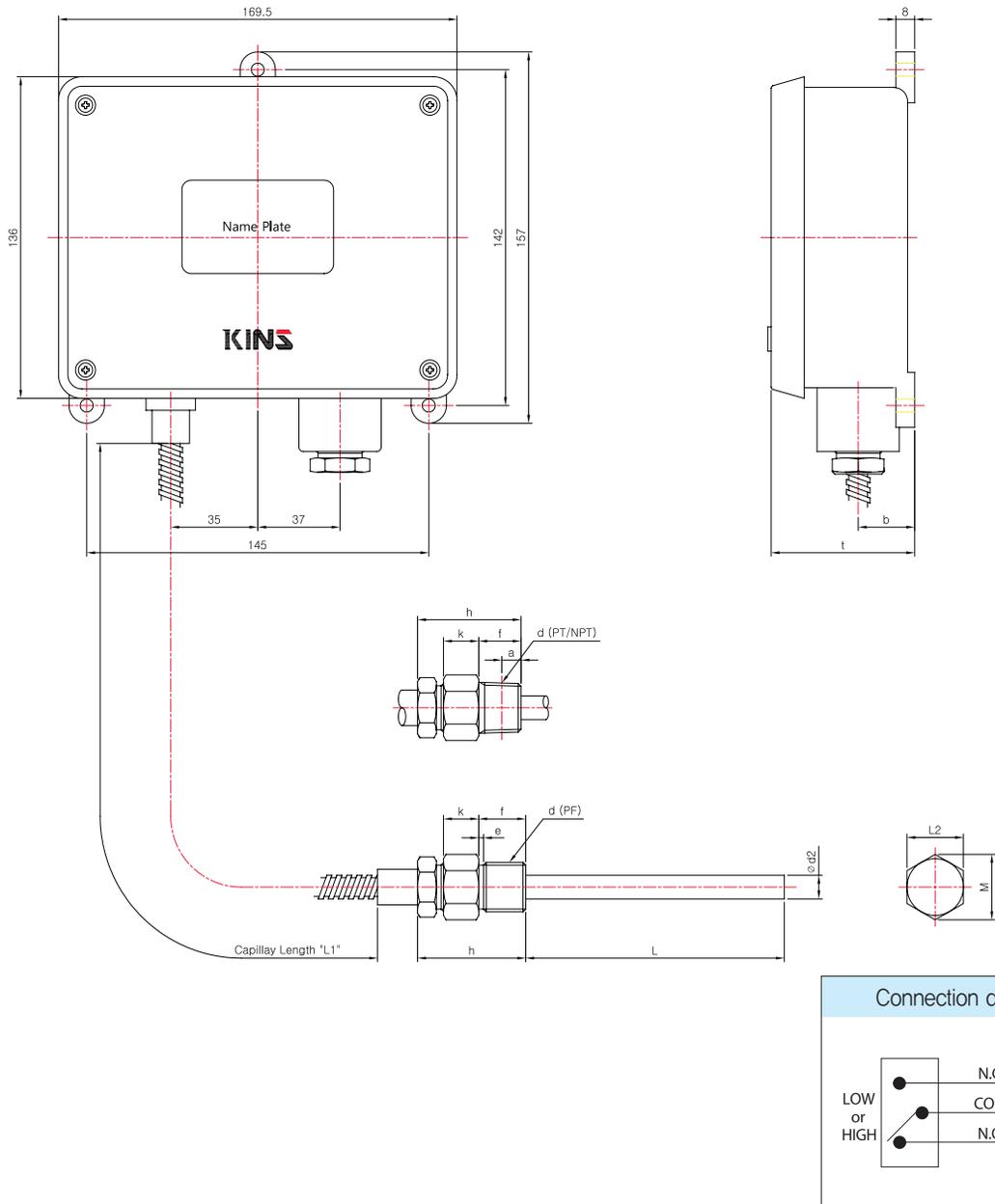
### Production Specification

- ▶ Diameter (1P)
  - 170mm x 135mm x 61mm (W x H x D)
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"><li>+ Case<ul style="list-style-type: none"><li>· Aluminum(Hammer tone coating)</li></ul></li><li>+ Case Structure<ul style="list-style-type: none"><li>· Weather Proof</li></ul></li><li>+ Cover<ul style="list-style-type: none"><li>· Aluminum(Hammer tone coating)</li></ul></li><li>+ Connection<ul style="list-style-type: none"><li>· STS 304, 316</li><li>· PF, PT, NPT ↔ 1/2</li></ul></li><li>+ Type<ul style="list-style-type: none"><li>· Surface Type</li></ul></li></ul> | <ul style="list-style-type: none"><li>+ Dial<ul style="list-style-type: none"><li>· Aluminum</li><li>· Color of white</li><li>· Black gradation and characters</li></ul></li><li>+ Pointer<ul style="list-style-type: none"><li>· Aluminum</li><li>· Black coating</li></ul></li><li>+ Capillary Tube<ul style="list-style-type: none"><li>· Standard 2 M (Maximum 10 M)</li></ul></li><li>+ Contact rating<ul style="list-style-type: none"><li>· AC 125V 5A / 250V 3A</li><li>· DC 30V 4A / 125V 0.4A / 250V 0.2A</li></ul></li></ul> | <ul style="list-style-type: none"><li>+ Contact type<ul style="list-style-type: none"><li>· Micro Contact Type</li><li>· High and Low 2 contact (high or Low, High &amp; High High &amp; Low, Low &amp; Low)</li></ul></li><li>+ Well<ul style="list-style-type: none"><li>· STS 304, STS 316</li><li>· Titanium, Monel, Hastelloy</li><li>· Teflon Lining, Glass Lining</li></ul></li></ul> |
|--|---|--|

## Model No. | SS-4050 drip-proof type



※ The formation of detecting temperature, the standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4010 and the contact type is the same as SS-4025

### Dimensions (mm)

Model No.	Conn'h (d)	b	t	L2	M	k	Ød2	h	f	e	a
SS-4050	PF 1/2	24	1P (61)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2		2P (110)					(48)			

\*( )The measurement in the blanket is approximate.

Pressure Gauge

Differential Pressure Gauge & Switch

Accessories of Pressure Gauge

Thermometer & Thermometer Switch

Thermocouple & R.T.D

Thermowell

Transmitter

Indicator etc.

Technical data

# Bimetal Thermometer

Model No. **SS-4061**



**SS-4061**

## Summary

This instrument is joined by two different metal plates which have a different coefficient of expansion. The structure is simple and it is easy to use. Therefore, it is easy to read the scale when measuring and as the price of it is inexpensive, it can be used widely.

### Safety Management

- Install a thermowell when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.

### Purpose of Use

- The measurement of temperature in various boilers, pipes, etc
- The measurement of temperature in petrochemistry, ships and various plants.
- Measurement of lines for sanitation such as food processor, etc.

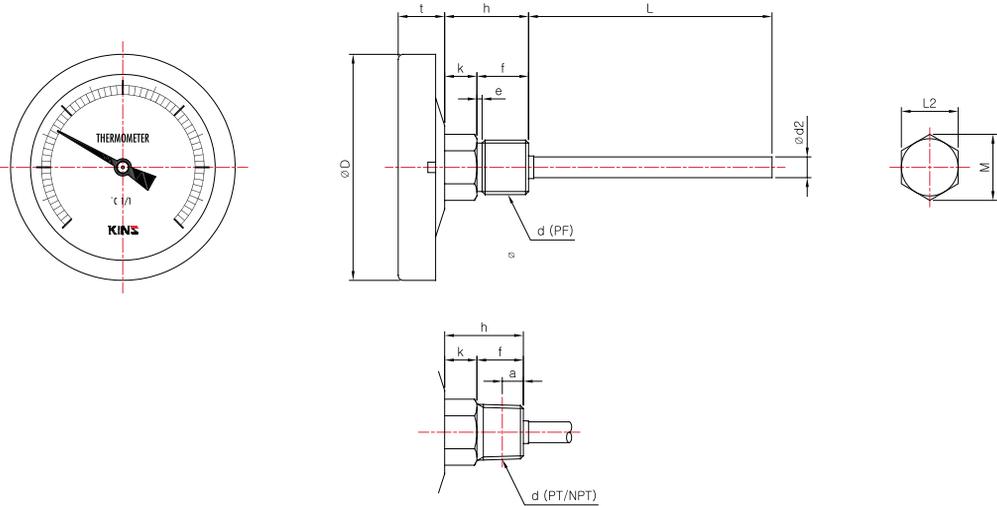
### Production Specification

- ▶ Diameter
  - 75mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

<b>+ Case</b> <ul style="list-style-type: none"><li>· STS 304</li></ul>	<b>+ Type</b> <ul style="list-style-type: none"><li>· T-Type</li></ul>	<b>+ Stem O,D</b> <ul style="list-style-type: none"><li>· <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li></ul>
<b>+ Cover</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· Slip-on-Fit</li></ul>	<b>+ Dial</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Color of white</li><li>· Black gradation and characters</li></ul>	<b>+ Well</b> <ul style="list-style-type: none"><li>· STS 304, 316</li><li>· Titanium, Monel, Hastelloy</li><li>· Teflon Lining, Glass Lining</li></ul>
<b>+ Connection</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2, 1/4, 3/8</li></ul>	<b>+ Pointer</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Black coating</li></ul>	
<b>+ Window</b> <ul style="list-style-type: none"><li>· General glass</li><li>· Tempered safety glass</li><li>· Laminated safety glass</li></ul>	<b>+ Stem</b> <ul style="list-style-type: none"><li>· STS 304, 316</li></ul>	

## Model No. | SS-4061 (75mm) T-Type (Direct Type)



Form of the part of detecting temperature

Standard manufacturing temperature (°C)	Temperature	Length (mm)	Temperature	Length (mm)
	-20 ~ 80	50	0 ~ 200	40
	-20 ~ 100	50	0 ~ 250	35
	0 ~ 50	75	0 ~ 300	75
	0 ~ 80	50	0 ~ 350	65
	0 ~ 100	50	0 ~ 400	60
	0 ~ 120	50	0 ~ 500	60
	0 ~ 150	45	0 ~ 650	60

### Dimensions (mm)

Model No.	Conn'n (d)	ØD	t	L2	M	k	Ød2	h	f	e	a
SS-4061	PF 1/4	87	(18)	17	(19.6)	8	6.4 8	(24)	16	2	-
	(22)							14	-	6.01	
	PF 3/8			19	(21.9)	10	6.4 8 10	(28)	18	2	-
	(26)							16	-	6.35	
	PF 1/2			22	(25.4)	12	6.4 8 10 12	(32)	20	2	-
	(30)							18	-	8.16	
	PF 3/4			27	(31.1)	14	6.4 8 10 12	(36)	22	2	-
	(34)							20	-	9.53	

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Bimetal Thermometer

Model No. **SS-4062**



**SS-4062**

## Summary

This instrument is joined by two different metal plates which have a different coefficient of expansion. The structure is simple and it is easy to use. Therefore, it is easy to read the scale when measuring and as the price of it is inexpensive, it can be used widely.

### Safety Management

- Install a thermowell when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.

### Purpose of Use

- The measurement of temperature in various boilers, pipes, etc
- The measurement of temperature in petrochemistry, ships and various plants.
- Measurement of lines for sanitation such as food processor, etc.

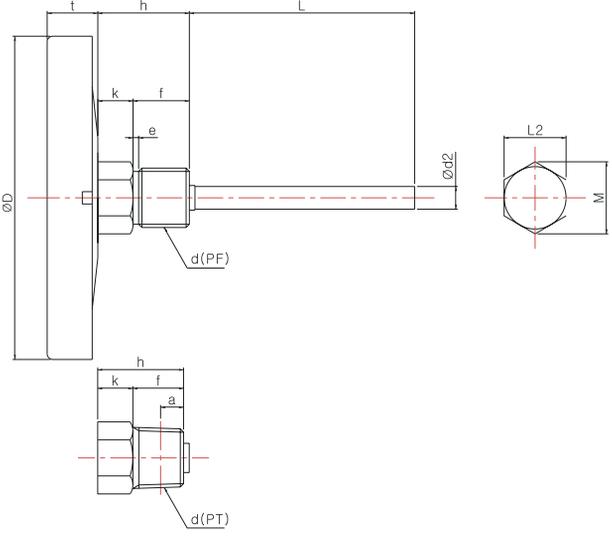
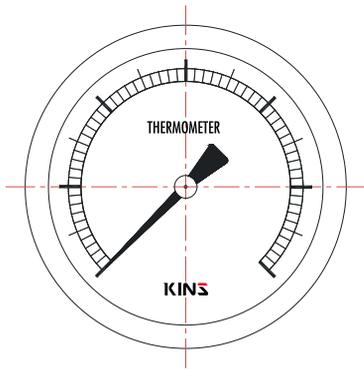
### Production Specification

- ▶ Diameter
  - 100mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 600^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

<p><b>+ Case</b></p> <ul style="list-style-type: none"> <li>· STS 304</li> </ul>	<p><b>+ Type</b></p> <ul style="list-style-type: none"> <li>· T-Type</li> </ul>	<p><b>+ Stem O,D</b></p> <ul style="list-style-type: none"> <li>· <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li> </ul>
<p><b>+ Cover</b></p> <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Slip-on-Fit</li> </ul>	<p><b>+ Dial</b></p> <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul>	<p><b>+ Well</b></p> <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> <li>· Titanium, Monel, Hastelloy</li> <li>· Teflon Lining, Glass Lining</li> </ul>
<p><b>+ Connection</b></p> <ul style="list-style-type: none"> <li>· STS 304</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2, 1/4, 3/8, 1</li> </ul>	<p><b>+ Pointer</b></p> <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Black coating</li> </ul>	
<p><b>+ Window</b></p> <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul>	<p><b>+ Stem</b></p> <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> </ul>	

## Model No. | SS-4062 (100mm) T-Type (Direct Type)



※ Standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4061 Series

### Dimensions (mm)

Model No.	Conn'h (d)	ØD	t	L2	M	k	Ød2	h	f	e	a
SS-4062	PF 1/4 NPT & PT 1/4	114	(18)	17	(19.6)	8	6.4 8	(24)	16	2	-
								(22)	14	-	6.01
	PF 3/8 NPT & PT 3/8			19	(21.9)	10	6.4 8 10	(28)	18	2	-
								(26)	16	-	6.35
	PF 1/2 NPT & PT 1/2			22	(25.4)	12	6.4 8 10 12	(32)	20	2	-
								(30)	18	-	8.16
	PF 3/4 NPT & PT 3/4			27	(31.1)	14	6.4 8 10 12	(36)	22	2	-
								(34)	20	-	9.53
	PF 1 NPT & PT 1			36	(41.5)	16	6.4 8 10 12	(40)	24	2	-
								(38)	22	-	10.39

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Bimetal Thermometer

Model No. **SS-4063**



**SS-4063**

## Summary

This instrument is joined by two different metal plates which have different coefficient of expansion. The structure is simple and it is easy to use. Therefore, it is easy to read the scale when measuring and as the price of it is inexpensive, it can be used widely.

### Safety Management

- Install a thermo well when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.

### Purpose of Use

- The measurement of temperature in various boilers, pipes, etc
- The measurement of temperature in petrochemistry, ships and various plants.
- Measurement of lines for sanitation such as food processor, etc.

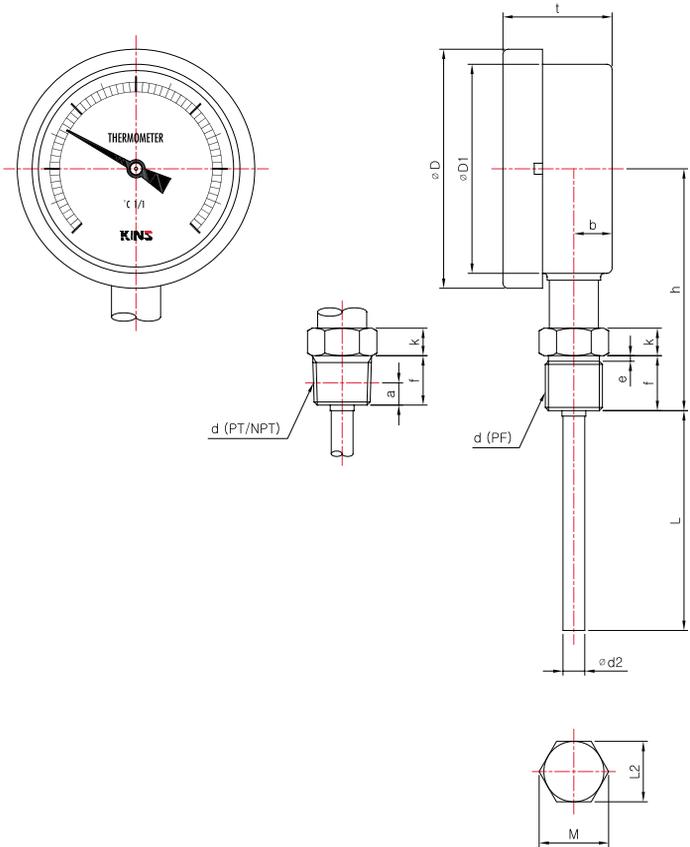
### Production Specification

- ▶ Diameter
  - 75mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 600^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

<b>+ Case</b> <ul style="list-style-type: none"><li>· STS 304</li></ul>	<b>+ Type</b> <ul style="list-style-type: none"><li>· L-Type</li></ul>	<b>+ Stem O,D</b> <ul style="list-style-type: none"><li>· <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li></ul>
<b>+ Cover</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· Slip-on-Fit</li></ul>	<b>+ Dial</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Color of white</li><li>· Black gradation and characters</li></ul>	<b>+ Well</b> <ul style="list-style-type: none"><li>· STS 304, STS 316</li><li>· Titanium, Monel, Hastelloy</li><li>· Teflon Lining, Glass Lining</li></ul>
<b>+ Connection</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2, 1/4, 3/8</li></ul>	<b>+ Pointer</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Black coating</li></ul>	
<b>+ Window</b> <ul style="list-style-type: none"><li>· General glass</li><li>· Tempered safety glass</li><li>· Laminated safety glass</li></ul>	<b>+ Stem</b> <ul style="list-style-type: none"><li>· STS 304, STS 316</li></ul>	

Model No. | SS-4063 (75mm)  
L-Type (Direct Type)



※ Standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4061 Series

Dimensions (mm)

Model No.	Conn'n (d)	ØD	ØD1	b	t	L2	M	k	Ød2	h	f	e	a
SS-4063	PF 1/4	87	77	14	(40)	17	(19.6)	8	6.4 8	(24)	16	2	-
	NPT & PT 1/4									(22)	14	-	6.01
	PF 3/8					19	(21.9)	10	6.4 8 10	(28)	18	2	-
	NPT & PT 3/8									(26)	16	-	6.35
	PF 1/2					22	(25.4)	12	6.4 8 10 12	(32)	20	2	-
	NPT & PT 1/2									(30)	18	-	8.16
	PF 3/4					27	(31.1)	14	6.4 8 10 12	(36)	22	2	-
	NPT & PT 3/4									(34)	20	-	9.53

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Bimetal Thermometer

Model No. **SS-4064**



**SS-4064**

## Summary

This instrument is joined by two different metal plates which have different coefficient of expansion. The structure is simple and it is easy to use. Therefore, it is easy to read the scale when measuring and as the price of it is inexpensive, it can be used widely.

## Safety Management

- Install a thermo well when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.

## Purpose of Use

- The measurement of temperature in various boilers, pipes, etc
- The measurement of temperature in petrochemistry, ships and various plants.
- Measurement of lines for sanitation such as food processor, etc.

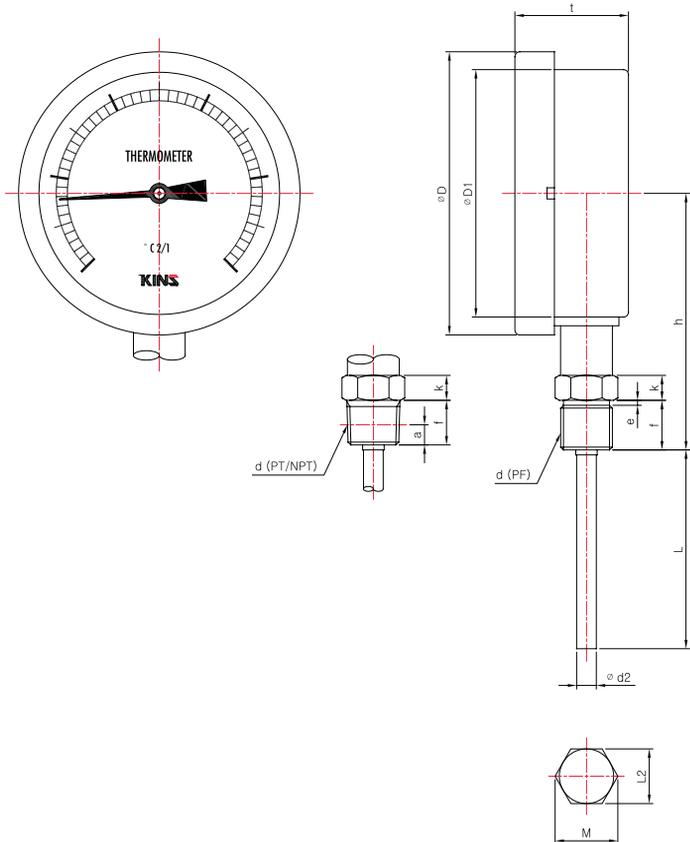
## Production Specification

- ▶ Diameter
  - 100mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 600^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

## Product Specification

<b>+ Case</b> <ul style="list-style-type: none"><li>· STS 304</li></ul>	<b>+ Type</b> <ul style="list-style-type: none"><li>· L-Type</li></ul>	<b>+ Stem O,D</b> <ul style="list-style-type: none"><li>· <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li></ul>
<b>+ Cover</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· Slip-on-Fit</li></ul>	<b>+ Dial</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Color of white</li><li>· Black gradation and characters</li></ul>	<b>+ Well</b> <ul style="list-style-type: none"><li>· STS 304, STS 316</li><li>· Titanium, Monel, Hastelloy</li><li>· Teflon Lining, Glass Lining</li></ul>
<b>+ Connection</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2, 1/4, 3/8, 1</li></ul>	<b>+ Pointer</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Black coating</li></ul>	
<b>+ Window</b> <ul style="list-style-type: none"><li>· General glass</li><li>· Tempered safety glass</li><li>· Laminated safety glass</li></ul>	<b>+ Stem</b> <ul style="list-style-type: none"><li>· STS 304, STS 316</li></ul>	

Model No. | SS-4064 (100mm)  
L-Type (Direct Type)



※ Standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4061 Series

Dimensions (mm)

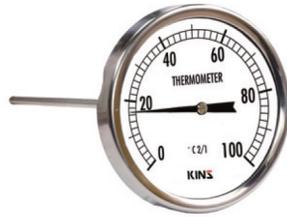
Model No.	Conn'n (d)	ØD	ØD1	b	t	L2	M	k	Ød2	h	f	e	a
SS-4064	PF 1/4	114	100	17	(40)	17	(19.6)	8	6.4	(24)	16	2	-
	8								(22)	14	-	6.01	
	PF 3/8					19	(21.9)	10	6.4	(28)	18	2	-
	8								(26)	16	-	6.35	
	PF 1/2					22	(25.4)	12	6.4	(32)	20	2	-
	8								(30)	18	-	8.16	
	PF 3/4					27	(31.1)	14	6.4	(36)	22	2	-
	8								(34)	20	-	9.53	
	PF 1					36	(41.5)	16	6.4	(40)	24	2	-
8	(38)	22	-	10.39									

\*( )The measurement in the blanket is approximate.

Pressure Gauge  
Differential Pressure Gauge & Switch  
Accessories of Pressure Gauge  
Thermometer & Thermometer Switch  
Thermocouple & R.T.D  
Thermowell  
Transmitter  
Indicator etc.  
Technical data

# Bimetal Thermometer

Model No. **SS-4065**



**SS-4065**

## Summary

This instrument is joined by two different metal plates which have different coefficient of expansion. The structure is simple and it is easy to use. Therefore, it is easy to read the scale when measuring and as the price of it is inexpensive, it can be used widely.

### Safety Management

- Install a thermo well when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.

### Purpose of Use

- The measurement of temperature in various boilers, pipes, etc
- The measurement of temperature in petrochemistry, ships and various plants.
- Measurement of lines for sanitation such as food processor, etc.

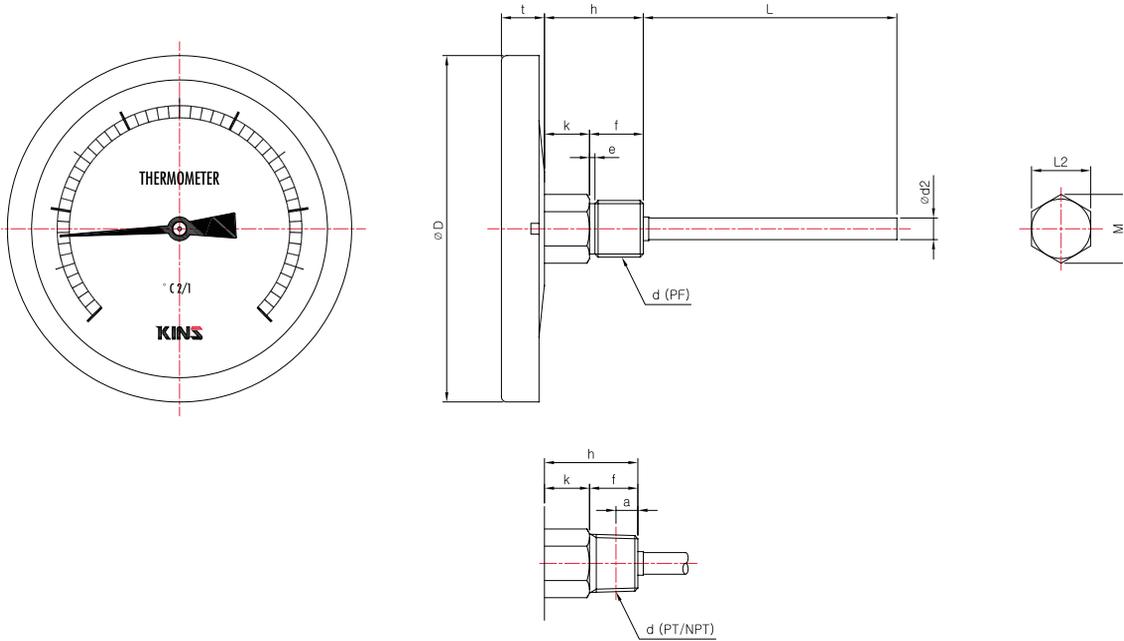
### Production Specification

- ▶ Diameter
  - 125mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 600^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

<ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· STS 304</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Type                             <ul style="list-style-type: none"> <li>· L-Type</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Stem O,D                             <ul style="list-style-type: none"> <li>· <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Cover                             <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Slip-on-Fit</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> <li>· Titanium, Monel, Hastelloy</li> <li>· Teflon Lining, Glass Lining</li> </ul> </li> </ul>
<ul style="list-style-type: none"> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2, 1/4, 3/8, 1</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Black coating</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>+ Window                             <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Stem                             <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> </ul> </li> </ul>	

### Model No. | SS-4065 (125mm) T-Type (Direct Type)



※ Standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4061 Series

**Dimensions (mm)**

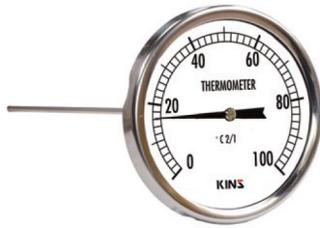
Model No.	Conn'h (d)	ØD	t	L2	M	k	Ød2	h	f	e	a
SS-4065	PF 1/4	128	(16)	17	(19.6)	18	6.4 8	(34)	16	2	-
	NPT & PT 1/4							(32)	14	-	6.01
	PF 3/8			19	(21.9)	20	6.4 8	(38)	18	2	-
	NPT & PT 3/8							(36)	16	-	6.35
	PF 1/2			22	(25.4)	22	6.4 8 10 12	(42)	20	2	-
	NPT & PT 3/8							(40)	18	-	8.16
	PF 3/4			27	(31.1)	24	6.4 8 10 12	(46)	22	2	-
	NPT & PT 3/8							(44)	20	-	9.53
	PF 1			36	(41.5)	26	6.4 8 10 12	(50)	24	2	-
NPT & PT 1	(48)	22	-					10.39			

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Bimetal Thermometer

Model No. **SS-4066**



**SS-4066**

## Summary

This instrument is joined by two different metal plates which have different coefficient of expansion. The structure is simple and it is easy to use. Therefore, it is easy to read the scale when measuring and as the price of it is inexpensive, it can be used widely.

### Safety Management

- Install a thermo well when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.

### Purpose of Use

- The measurement of temperature in various boilers, pipes, etc
- The measurement of temperature in petrochemistry, ships and various plants.
- Measurement of lines for sanitation such as food processor, etc.

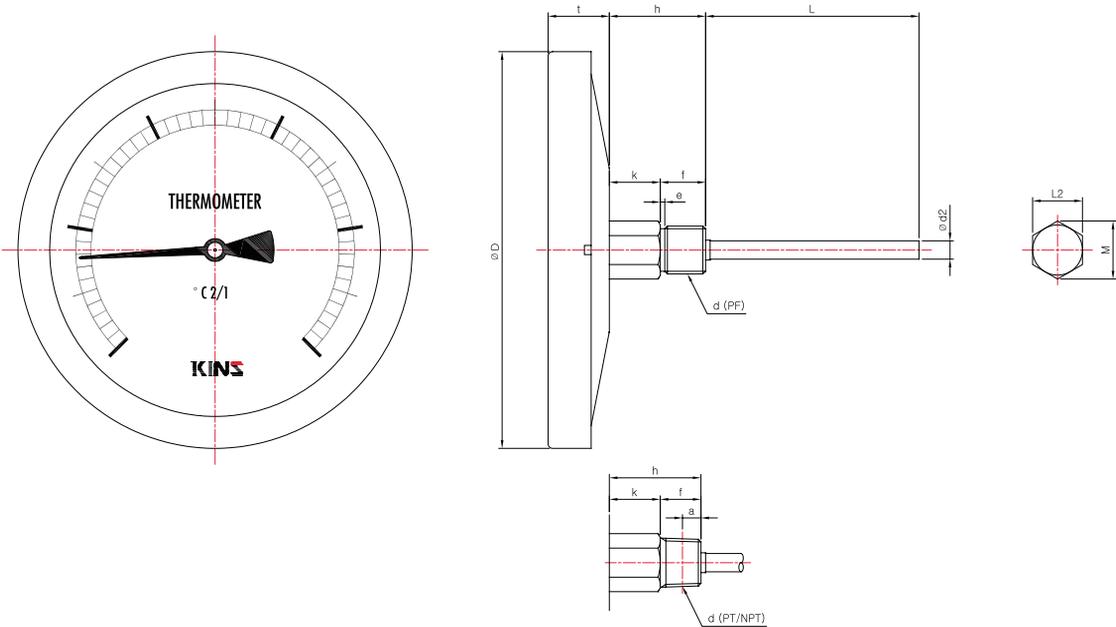
### Production Specification

- ▶ Diameter
  - 150mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 600^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

<b>+ Case</b> <ul style="list-style-type: none"><li>· STS 304</li></ul>	<b>+ Type</b> <ul style="list-style-type: none"><li>· T-Type</li></ul>	<b>+ Stem O,D</b> <ul style="list-style-type: none"><li>· <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li></ul>
<b>+ Cover</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· Slip-on-Fit</li></ul>	<b>+ Dial</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Color of white</li><li>· Black gradation and characters</li></ul>	<b>+ Well</b> <ul style="list-style-type: none"><li>· STS 304, STS 316</li><li>· Titanium, Monel, Hastelloy</li><li>· Teflon Lining, Glass Lining</li></ul>
<b>+ Connection</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2, 1/4, 3/8, 1</li></ul>	<b>+ Pointer</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Black coating</li></ul>	
<b>+ Window</b> <ul style="list-style-type: none"><li>· General glass</li><li>· Tempered safety glass</li><li>· Laminated safety glass</li></ul>	<b>+ Stem</b> <ul style="list-style-type: none"><li>· STS 304, STS 316</li></ul>	

Model No. | SS-4066 (150mm)  
T-Type (Direct Type)



※ Standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4061 Series

Dimensions (mm)

Model No.	Conn'h (d)	ØD	t	L2	M	k	Ød2	h	f	e	a
SS-4066	PF 1/4	174	(27)	17	(19.6)	18	6.4 8	(34)	16	2	-
	NPT & PT 1/4							(32)	14	-	6.01
	PF 3/8			19	(21.9)	20	6.4 8	(38)	18	2	-
	NPT & PT 3/8							(36)	16	-	6.35
	PF 1/2			22	(25.4)	22	6.4 8	(42)	20	2	-
	NPT & PT 3/8							(40)	18	-	8.16
PF 3/4	27	(31.1)	24	6.4 8	(46)	22	2	-			
NPT & PT 3/4					(44)	20	-	9.53			
PF 1	36	(41.5)	26	6.4 8	(50)	24	2	-			
NPT & PT 1					(48)	22	-	10.39			

\*( )The measurement in the blanket is approximate.

Pressure Gauge  
Differential Pressure Gauge & Switch  
Accessories of Pressure Gauge  
Thermometer & Thermometer Switch  
Thermocouple & R.T.D  
Thermowell  
Transmitter  
Indicator etc.  
Technical data

# Bimetal Thermometer

Model No. **SS-4067**



**SS-4067**

## Summary

This instrument is joined by two different metal plates which have different coefficient of expansion. The structure is simple and it is easy to use. Therefore, it is easy to read the scale when measuring and as the price of it is inexpensive, it can be used widely.

### Safety Management

- Install a thermo well when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.

### Purpose of Use

- The measurement of temperature in various boilers, pipes, etc
- The measurement of temperature in petrochemistry, ships and various plants.
- Measurement of lines for sanitation such as food processor, etc.

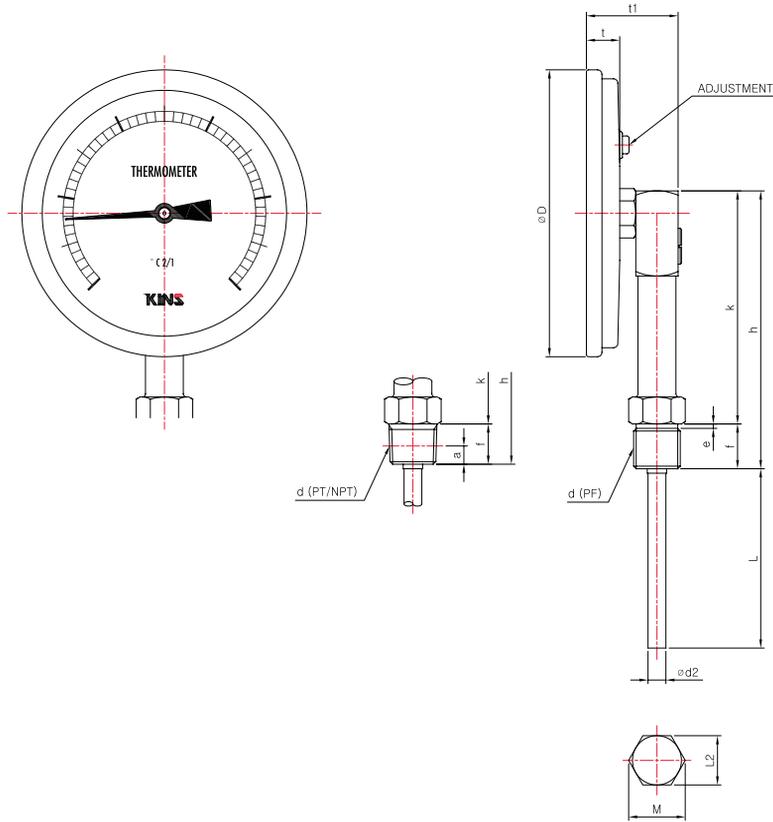
### Production Specification

- ▶ Diameter
  - 125mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 600^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

<p><b>+ Case</b></p> <ul style="list-style-type: none"> <li>· STS 304</li> </ul>	<p><b>+ Type</b></p> <ul style="list-style-type: none"> <li>· L-Type</li> </ul>	<p><b>+ Stem O,D</b></p> <ul style="list-style-type: none"> <li>· <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li> </ul>
<p><b>+ Cover</b></p> <ul style="list-style-type: none"> <li>· STS 304</li> <li>· Slip-on-Fit</li> </ul>	<p><b>+ Dial</b></p> <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul>	<p><b>+ Well</b></p> <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> <li>· Titanium, Monel, Hastelloy</li> <li>· Teflon Lining, Glass Lining</li> </ul>
<p><b>+ Connection</b></p> <ul style="list-style-type: none"> <li>· STS 304</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2, 1/4, 3/8, 1</li> </ul>	<p><b>+ Pointer</b></p> <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Black coating</li> </ul>	
<p><b>+ Window</b></p> <ul style="list-style-type: none"> <li>· General glass</li> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul>	<p><b>+ Stem</b></p> <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> </ul>	

## Model No. | SS-4067 (125mm) T-Type (Direct Type)



※ Standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4061 Series

### Dimensions (mm)

Model No.	Conn'n (d)	ØD	t	t1	L2	M	k	Ød2	h	f	e	a
SS-4067	PF 1/4 NPT & PT 1/4	128	(18)	(41)	17	(19.6)	78	6.4 8	(94)	16	2	-
									(92)	14	-	6.01
	PF 3/8 NPT & PT 3/8				19	(21.9)	80	6.4 8 10	(98)	18	2	-
									(96)	16	-	6.35
	PF 1/2 NPT & PT 3/8				22	(25.4)	92	6.4 8 10 12	(102)	20	2	-
									(100)	18	-	8.16
	PF 3/4 NPT & PT 3/4				27	(31.1)	84	6.4 8 10 12	(106)	22	2	-
									(104)	20	-	9.53
	PF 1 NPT & PT 1				36	(41.5)	286	6.4 8 10 12	(100)	24	2	-
									(108)	22	-	10.39

\*( )The measurement in the blanket is approximate.

# Bimetal Thermometer

Model No. **SS-4068**



**SS-4068**

## Summary

This instrument is joined by two different metal plates which have different coefficient of expansion. The structure is simple and it is easy to use. Therefore, it is easy to read the scale when measuring and as the price of it is inexpensive, it can be used widely.

## Safety Management

- Install a thermo well when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.

## Purpose of Use

- The measurement of temperature in various boilers, pipes, etc
- Petrochemistry, ships, temperature measurement of various plants.
- Measurement of lines for sanitation such as food processor, etc.

## Production Specification

- ▶ Diameter
  - 150mm
- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 600^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

## Product Specification

<b>+ Case</b> <ul style="list-style-type: none"><li>· STS 304</li></ul>	<b>+ Type</b> <ul style="list-style-type: none"><li>· L-Type</li></ul>	<b>+ Stem O,D</b> <ul style="list-style-type: none"><li>· <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li></ul>
<b>+ Cover</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· Slip-on-Fit</li></ul>	<b>+ Dial</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Color of white</li><li>· Black gradation and characters</li></ul>	<b>+ Well</b> <ul style="list-style-type: none"><li>· STS 304, STS 316</li><li>· Titanium, Monel, Hastelloy</li><li>· Teflon Lining, Glass Lining</li></ul>
<b>+ Connection</b> <ul style="list-style-type: none"><li>· STS 304</li><li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2, 1/4, 3/8, 1</li></ul>	<b>+ Pointer</b> <ul style="list-style-type: none"><li>· Aluminum</li><li>· Black coating</li></ul>	
<b>+ Window</b> <ul style="list-style-type: none"><li>· General glass</li><li>· Tempered safety glass</li><li>· Laminated safety glass</li></ul>	<b>+ Stem</b> <ul style="list-style-type: none"><li>· STS 304, STS 316</li></ul>	

Pressure Gauge

Differential Pressure Gauge & Switch

Accessories of Pressure Gauge

Thermometer & Thermometer Switch

Thermocouple & R.T.D

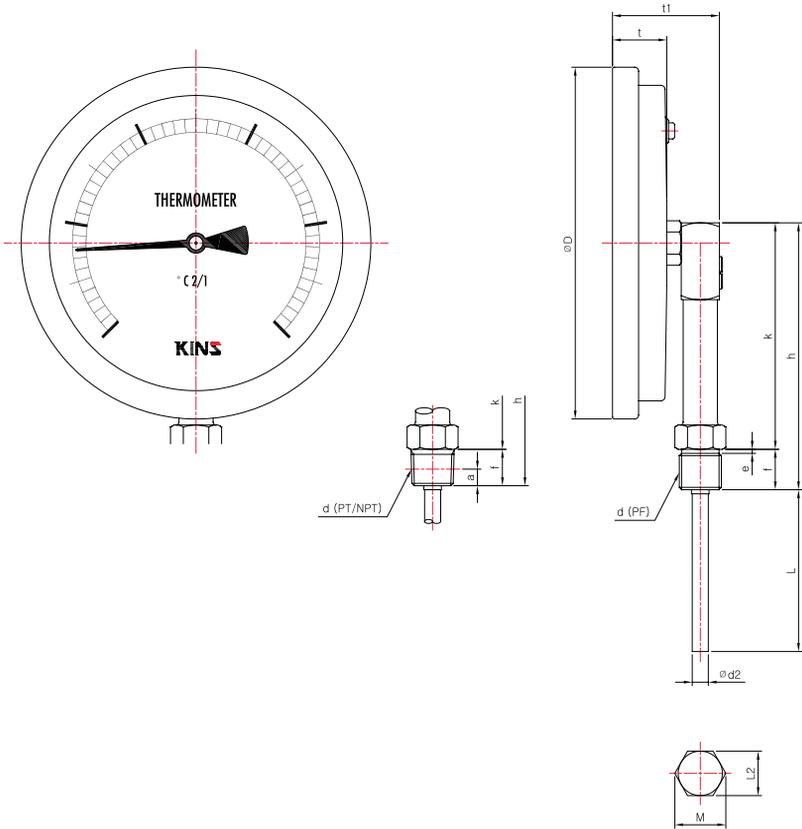
Thermowell

Transmitter

Indicator etc.

Technical data

Model No. | SS-4068 (150mm)  
L-Type (Direct Type)



※ Standard manufacturing temperature and the minimum strength of the detecting temperature part is the same as SS-4061 Series

Dimensions (mm)

Model No.	Conn'n (d)	ØD	t	t1	L2	M	k	Ød2	h	f	e	a
SS-4068	PF 1/4	174	(27)	(53.2)	17	(19.6)	108	6.4	(124)	16	2	-
	8							(122)	14	-	6.01	
	PF 3/8				19	(21.9)	110	6.4	(128)	18	2	-
	8							(126)	16	-	6.35	
	PF 1/2				22	(25.4)	112	6.4	(132)	20	2	-
	8							(130)	18	-	8.16	
	PF 3/4				27	(31.1)	114	6.4	(136)	22	2	-
	8							(134)	20	-	9.53	
	PF 1				36	(41.5)	116	6.4	(130)	24	2	-
8	(138)	22	-	10.39								

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Angle Type Special Thermometer

Model No. SS-4071~3 Series



SS-4071~3

## Summary

This instrument is designed to adjust the measuring angle as you want to. Therefore, you can change the location as your own discretion and measure it.

### Safety Management

- Do not give impact during transportation, installation, and usage.
- Be sure to install a protecting device where exist vibration.
- Avoid places where exist a lot of steam and poisonous gas.

### Purpose of Use

- A place where decoding direction of indication requires changes by own discretion.
- Various boilers
- Petrochemistry plant, food processing, etc

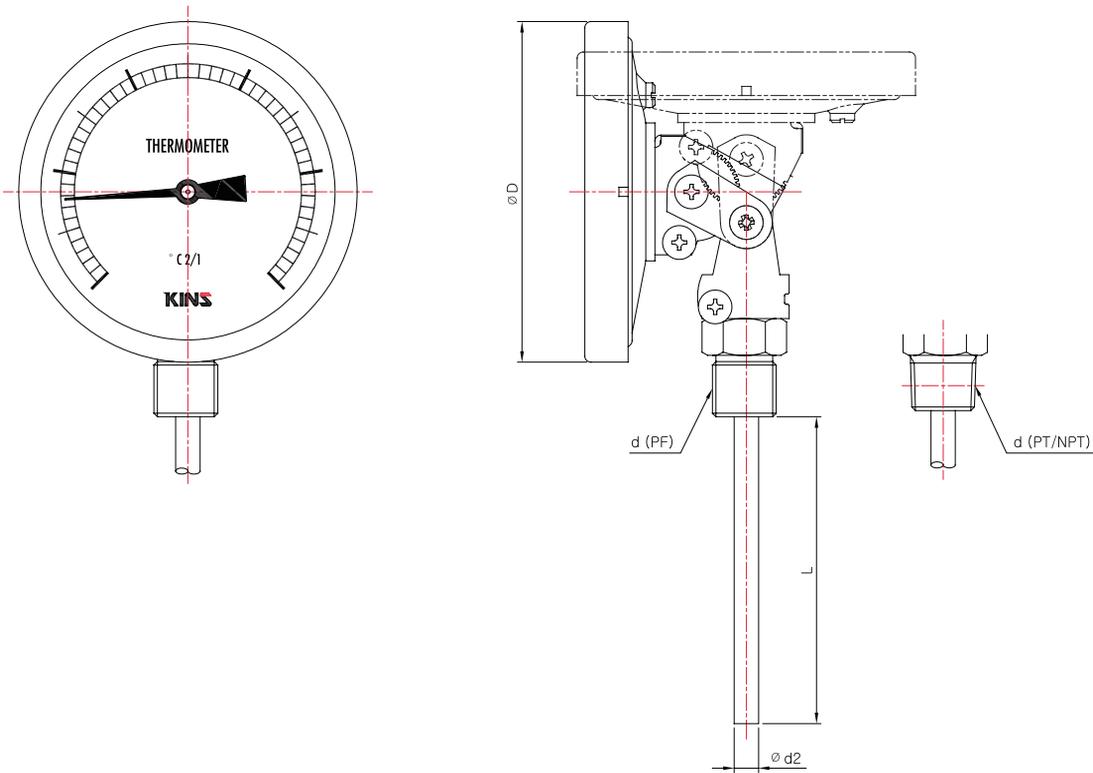
### Production Specification

- ▶ Diameter
  - 100mm, 125mm, 150mm
- ▶ Accuracy
  - $\pm 1.0\%$  of Full Scale
  - $\pm 2.0\%$  of Full Scale
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale

### Product Specification

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"><li>+ Case<ul style="list-style-type: none"><li>· STS 304</li></ul></li><li>+ Cover<ul style="list-style-type: none"><li>· STS 304</li><li>· Slip-on-Fit</li></ul></li><li>+ Connection<ul style="list-style-type: none"><li>· STS 304</li><li>· PF, PT, NPT ↔ 1/2, 1/4, 1</li></ul></li></ul> | <ul style="list-style-type: none"><li>+ Window<ul style="list-style-type: none"><li>· General glass</li><li>· Tempered safety glass</li><li>· Laminated safety glass</li></ul></li><li>+ Type<ul style="list-style-type: none"><li>· T-Type</li></ul></li><li>+ Dial<ul style="list-style-type: none"><li>· Aluminum</li><li>· Color of white</li><li>· Black gradation and characters</li></ul></li></ul> | <ul style="list-style-type: none"><li>+ Pointer<ul style="list-style-type: none"><li>· Aluminum</li><li>· Black coating</li></ul></li><li>+ Stem<ul style="list-style-type: none"><li>· STS 304, STS 316</li><li>· Out Dia. : <math>\varnothing 6.4, \varnothing 8, \varnothing 10, \varnothing 12</math></li></ul></li><li>+ Well<ul style="list-style-type: none"><li>· STS 304, STS 316</li><li>· Titanium, Monel, Hastelloy</li><li>· Teflon Lining, Glass Lining</li></ul></li></ul> |
|--|--|---|

## Model No. | SS-4071~3 Angle Type (Direct Type)



Pressure Gauge

Differential Pressure Gauge & Switch

Accessories of Pressure Gauge

Thermometer & Thermometer Switch

Thermocouple & R.T.D

Thermowell

Transmitter

Indicator etc.

Technical data

**Dimensions (mm)**

Model No.	ØD	Con'n (d)	Ød2	Range	Minimum Graduation	Length Of Bulb "L"		
						Minimum Insertion Length		
						Ød2 = 6.4	Ød2 = 8.0	Max.
SS-4071	110.5	PF 1/2 NPT & PT 1/2	6.4	-20 ~ 80	2	50	50	1000
				-20 ~ 100	2	45	45	
				0 ~ 50	1	75	75	
				0 ~ 80	2	60	60	
SS-4072	127.5	PF 3/4 NPT & PT 3/4	8.0	0 ~ 100	2	50	50	
				0 ~ 120	2	45	45	
				0 ~ 150	2	50	50	
				0 ~ 200	5	30	30	
SS-4073	173.0	PF 1 NPT & PT 1	8.0	0 ~ 250	5	75	75	
				0 ~ 300	5	60	60	
				0 ~ 350	5	50	50	
				0 ~ 400	10	45	45	
				0 ~ 500	10	40	40	

\*( )The measurement in the blanket is approximate.

# Explosion-Protected Thermometer Indicating Switch

Model No. **KTD-21 Series**



**KTD-21**

[Explosion-Protected of Protection] Ex d IIC T4

## Summary

As the driving power is strong, the indicator indicates certainly and it is widely used for industrial use because its transmission speed of temperature is very fast.

This instrument has a micro switch which produces a contact signal when there is an increase or decrease of temperature by controlling the setting temperature outside.

### Safety Management

- Install a thermowell when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.
- Do not use over the switch capacity (Under AC220V 5A)
- Use the interior and exterior of earth terminal.

### Purpose of Use

- Indication, warning and controlling of the usage of pipe in the region of explosion.
- Indication, warning and controlling of the temperature at LNG, LPG plant
- Indication, warning and controlling of the explosive chemical plant.
- Instructing, warning, controlling, etc. of the temperature of pressure vessel

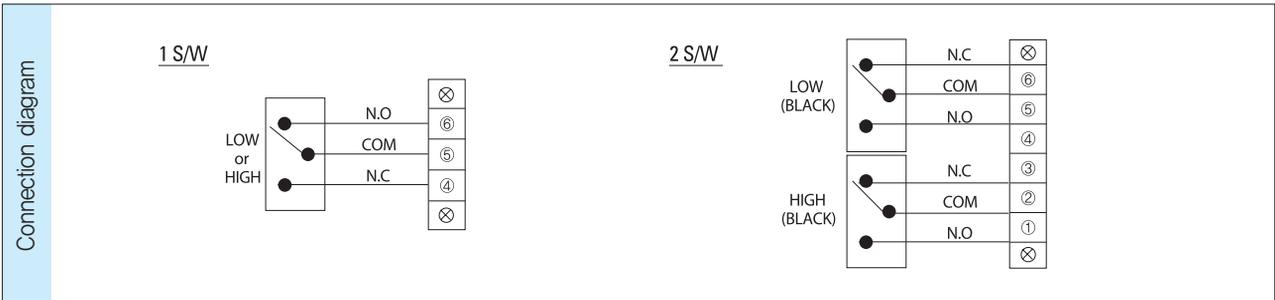
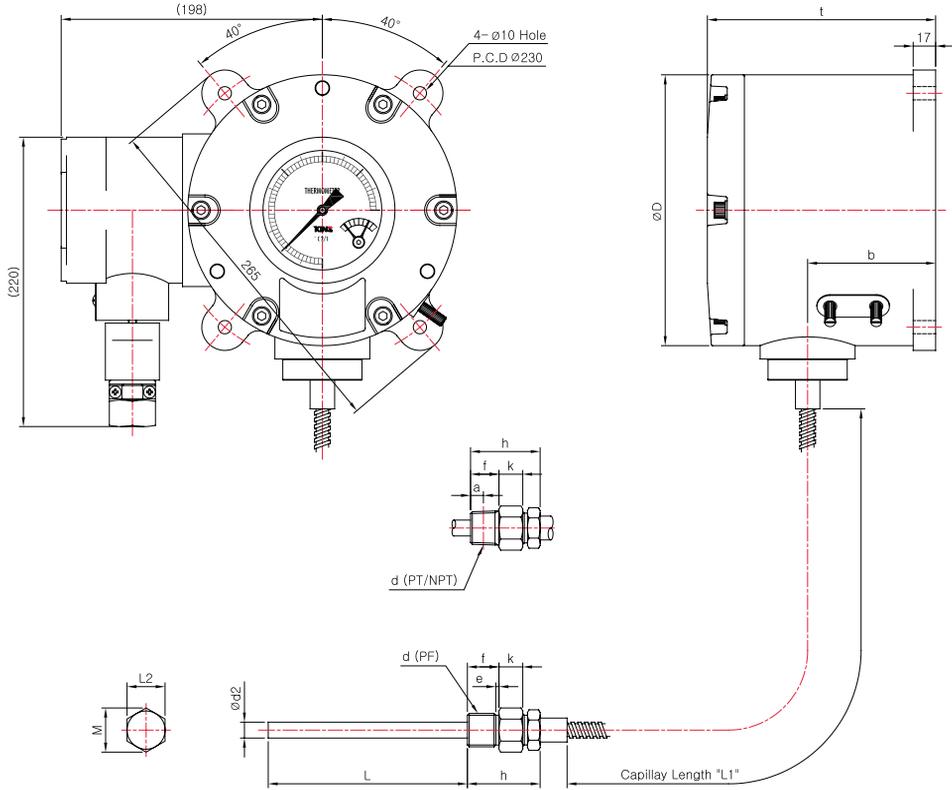
### Production Specification

- ▶ Accuracy
  - $\pm 2.0\%$  of Full Scale
- ▶ Dead Band :  $\pm 4\%$
- ▶ Repeatability :  $\pm 1\%$
- ▶ Scale Range
  - $-30^{\circ}\text{C} \sim 650^{\circ}\text{C}$
- ▶ Common Temperature
  - 75% of Full Scale
- ▶ Explosion-Protected of Protection
  - Ex d IIC T4

### Product Specification

<p><b>+ Case</b></p> <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> <li>· Explosion-protected type(Ex d IIC T4)</li> </ul>	<p><b>+ Stem</b></p> <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> <li>· Out Dia. : <math>\varnothing 8, \varnothing 10, \varnothing 12\text{mm}</math></li> </ul>	<p><b>+ Bourdon Tube</b></p> <ul style="list-style-type: none"> <li>· STS 316</li> </ul>
<p><b>+ Cover</b></p> <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> </ul>	<p><b>+ Dial</b></p> <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul>	<p><b>+ Contact rating</b></p> <ul style="list-style-type: none"> <li>· AC 125V 5A / 250V 3A</li> <li>· DC 30V 4A / 125V 0.4A / 250V 0.2A</li> </ul>
<p><b>+ Connection</b></p> <ul style="list-style-type: none"> <li>· STS 304</li> <li>· PF, PT, NPT <math>\leftrightarrow</math> 1/2(Standard)</li> </ul>	<p><b>+ Pointer</b></p> <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Black coating</li> </ul>	<p><b>+ Contact Form</b></p> <ul style="list-style-type: none"> <li>· Micro Contact Type</li> <li>SPDT * 1, SPDT * 2, DPDT * 1 (High, Low, High &amp; High High &amp; Low, Low &amp; Low)</li> </ul>
<p><b>+ Window</b></p> <ul style="list-style-type: none"> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul>	<p><b>+ Well</b></p> <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· Titanium, Monel, Hastelloy</li> <li>Teflon Lining, Glass Lining 가능</li> </ul>	<p><b>+ Option</b></p> <ul style="list-style-type: none"> <li>· Cable Grand</li> </ul>

## Model No. | KTD-21



**Dimensions (mm)**

Model No.	Conn'n (d)	ØD	b	t	L2	M	k	Ød2	h	f	e	a
KTD-21	PF 1/2	204	97	(170)	24	(27.7)	17	8	(50)	20	2	-
	NPT & PT 1/2							10	(48)	18	-	8.16

\*( )The measurement in the blanket is approximate.

- Pressure Gauge
- Differential Pressure Gauge & Switch
- Accessories of Pressure Gauge
- Thermometer & Thermometer Switch
- Thermocouple & R.T.D
- Thermowell
- Transmitter
- Indicator etc.
- Technical data

# Explosion-Protected Thermometer Indicating Switch

Model No. **KTD-22 Series**



**KTD-22**

[Explosion-Protected of Protection]

Ex d IIC T4

## Summary

As the driving power is strong, the indicator indicates certainly and it is widely used for industrial use because its transmission speed of temperature is very fast.

This instrument has a micro switch that produces a contact signal when there is an increase or decrease of temperature by controlling the setting temperature outside.

### Safety Management

- Install a thermowell when there exist high voltage, slurry or when measuring the temperature of fluid with high corrosiveness.
- Do not give impact during transportation, installation and usage.
- Be sure to install the thermometer to be horizontal and vertical.
- Avoid the place where exist a lot of vibration.
- Do not use over the switch capacity (Under AC220V 5A)
- Use the interior and exterior of earth terminal.

### Purpose of Use

- Indication, warning and controlling of the usage of pipe in the region of explosion.
- Indication, warning and controlling of the temperature at LNG, LPG plant
- Indication, warning and controlling of the explosive chemical plant.
- Instructing, warning, controlling, etc. of the temperature of pressure vessel

### Production Specification

- ▶ Accuracy
  - ±2.0% of Full Scale
- ▶ Scale Range
  - -30°C ~ 650°C
- ▶ Common Temperature
  - 75% of Full Scale
- ▶ Explosion-Protected of Protection
  - Ex d IIC T4

### Product Specification

<ul style="list-style-type: none"> <li>+ Case                             <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> <li>· Explosion-protected type(Ex d IIC T4)</li> </ul> </li> <li>+ Cover                             <ul style="list-style-type: none"> <li>· Aluminum(Hammer tone coating)</li> </ul> </li> <li>+ Connection                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· PF, PT, NPT ↔ 1/2(Standard)</li> </ul> </li> <li>+ Window                             <ul style="list-style-type: none"> <li>· Tempered safety glass</li> <li>· Laminated safety glass</li> </ul> </li> <li>+ Stem                             <ul style="list-style-type: none"> <li>· STS 304, STS 316</li> <li>· Out Dia. : Ø 8, Ø 10, Ø 12mm</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Dial                             <ul style="list-style-type: none"> <li>· Aluminum</li> <li>· Color of white</li> <li>· Black gradation and characters</li> </ul> </li> <li>+ Pointer                             <ul style="list-style-type: none"> <li>· Phosphor bronze</li> <li>· Black coating</li> </ul> </li> <li>+ Well                             <ul style="list-style-type: none"> <li>· STS 304, 316</li> <li>· Titanium, Monel, Hastelloy</li> <li>· Teflon Lining, Glass Lining</li> </ul> </li> <li>+ Bourdon Tube                             <ul style="list-style-type: none"> <li>· STS 304</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>+ Contact rating                             <ul style="list-style-type: none"> <li>· AC 125V 0.5A / 250V 0.25A</li> <li>· DC 24V 0.25A</li> </ul> </li> <li>+ Contact Form                             <ul style="list-style-type: none"> <li>· Micro Contact Type</li> <li>· SPDT * 1, SPDT * 2, DPDT * 1</li> <li>(High, Low, High &amp; High High &amp; Low, Low &amp; Low)</li> </ul> </li> <li>+ Option                             <ul style="list-style-type: none"> <li>· Cable Grand</li> </ul> </li> </ul>
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