# Explosion-Protected Thermometer Indicating Switch

## Model No. KTD-21 Series



### KTD-21

## [Explosion-Protected of Protection] Ex d IIC T4

#### 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

#### **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

#### **Production Specification**

- Accuracy
  - ±2.0% of Full Scale
- ▶ Dead Band: ±4%
- ► Repeatability: ±1%
- Scale Range
- $\cdot$  -30°C  $\sim$  650°C
- Common Temperature
  - · 75% of Full Scale
- Explosion—Protected of Protection
  Ex d IIC T4

#### **Product Specification**

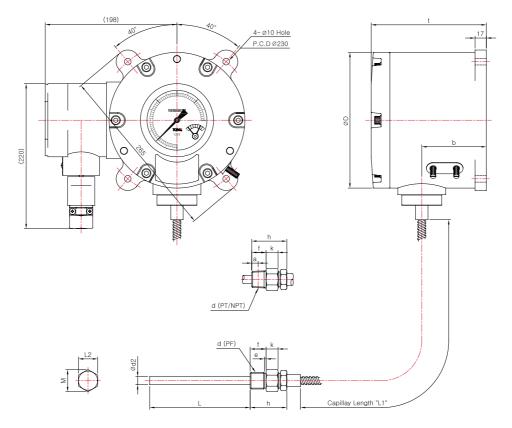
- + Case
- · Aluminum(Hammer tone coating)
- · Explosion-protected type(Ex d IIC T4)
- + Cover
  - · Aluminum(Hammer tone coating)
- + Connection
  - · STS 304
  - · PF, PT, NPT ↔ 1/2(Standard)
- + Window
  - · Tempered safety glass
  - · Laminated safety glass

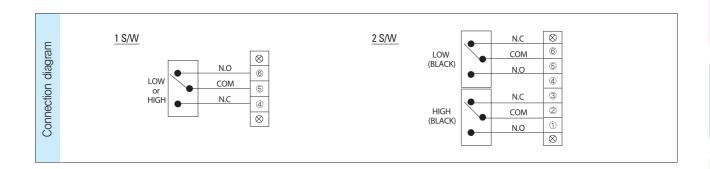
- + Stem
- · STS 304, STS 316
- · Out Dia. : Ø 8, Ø 10, Ø 12mm
- + Dial
  - · Aluminum
  - · Color of white
  - $\cdot$  Black gradation and characters
- + Pointer
- · Aluminum
- · Black coating
- + Well
  - · STS 304, 316
  - · Titanium, Monel, Hastelloy Teflon Lining, Glass Lining 가능

- + Bourdon Tube
  - · STS 316
- + Contact rating
  - · AC 125V 5A / 250V 3A · DC 30V 4A / 125V 0.4A / 250V 0.2A
- + Contact Form
  - · Micro Contact Type SPDT \* 1, SPDT \* 2, DPDT \* 1
  - (High, Low, High & High High & Low, Low & Low)
- + Option
  - · Cable Grand



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#### Dimensions (mm)

Model No.	Conn'n (d)	ØD	b	t	L2	М	k	Ød2	h	f	е	а
KTD-21	PF 1/2	204	97	(170)	24	(27.7)	17	8 10 12	(50)	20	2	_
	NPT & PT 1/2								(48)	18	_	8.16

 $<sup>\</sup>ensuremath{^{*}\!(}$  )The measurement in the blanket is approximate.