### Euro gauge Inductive contact type bimetal temperature gauge Model : T511(H), T512(H/L), T513(L), T514(H/HH), T515(L/LL)

#### Service intended

Contact type temperature gauge is installed with electric contact actuated by pointer. It provides the function which electrical circuit can be opened or closed by manual set point. It is applicable where signal is required (Audible or visual alarm) for control of resistance or any other application with auxiliary relay and contact.

#### **Nominal diameter**

100 and 160 mm

## Accuracy

±2.0 % of full scale

Temperature element Coiled bimetal

#### Working range Maximum scale value



# Standard features

Location of stem Bottom connection, surface, case mounting

Case Stainless steel (304SS)

#### Cover

304SS Bayonet type

#### Window

Safety glass : Only available with diameter 100 mm Polycarbonate : 100 and 160 mm  $\,$ 

#### Dial

White aluminium with black graduation

#### Contacts

Maximum voltage : 250 V AC Contact rating : AC 220 V, 0.25 A DC 100 V, 0.5 A With max. no of contact : 2 sets per gauge

**Pointer** Black painted aluminium alloy

#### Stem out diameter

6.0, 6.4, 8.0 and 10.0 mm diameter 304SS, 316SS and 316L SS Max. Insertion length : 2,000 mm

#### Stem, process connection

3/8", 1/2", 3/4" PT or NPT G1/2B, G3/4B

**Option** Special accuracy, ±1.0 % of full scale



Spec. sheet no. TD05-02





### Main order

### **Ordering information**

#### 1. Base model

- **T511** Inductive contact type bimetal temperature gauge (High alarm)
- T512 Inductive contact type bimetal temperature gauge (High and low alarm)
- T513 Inductive contact type bimetal temperature gauge (Low alarm)
- **T514** Inductive contact type bimetal temperature gauge (High and hihigh alarm)
- **T515** Inductive contact type bimetal temperature gauge (Low and lolow alarm)

#### 2. Nominal diameter (mm)

- 4 100 mm and safety glass
- 5 100 mm and polycarbonate window
- 6 160 mm and polycarbonate window

#### 3. Type of mounting

- **A** Bottom connection (Only direct mounting)
- B Bottom connection, surface, case mounting plate

#### 4. Stem material

- **0** 304SS
- 1 316SS
- 2 316L SS

#### 5. Stem, process connection

- D 3/8"
- E ½"
- **F** <sup>3</sup>/<sub>4</sub>"

#### 6. Stem connection type (CF: Compression fitting)

- E CF + PT
- F CF + NPT
- G CF + PF
- H MT + PT (Movable thread)
- I MT + NPT (Movable thread)
- J MT + PF (Movable thread)
- S Clamp (Sanitary type flange)

#### 7. Stem outer diameter (mm)

- **0** 6.0
- **1** 6.4
- 2 8.0
- 3 10.0

T510 Series\_02

#### 2 3 4 5 6 7 8 9 10 1 Sample T511 4 Α 1 Ε С 3 XXX Х 1 ordering code

#### 8. Range

XXX Refer to scale range table

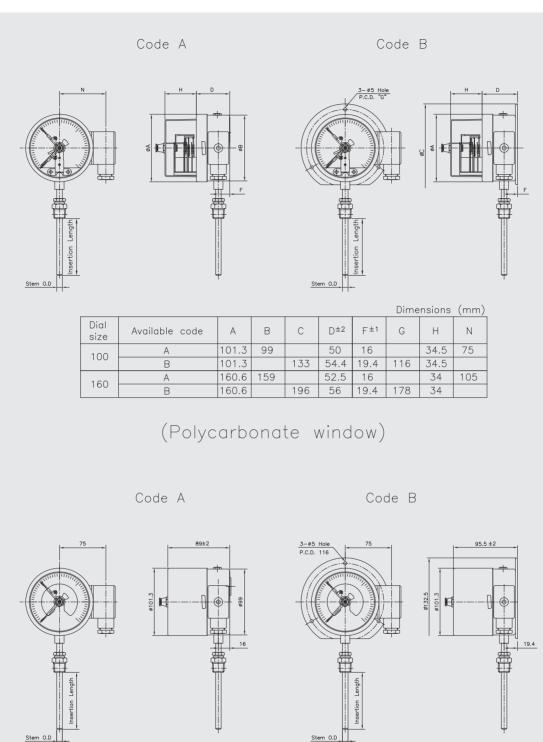
#### 9. Insertion length

X Refer to insertion length table

#### 10. Accessories

- 0 None
- 1 Thermowell
- 2 Special accuracy (±1.0 % of full scale)
- 3 Thermowell and special accuracy

### T51X : Type of mounting



(Safety glass window / only 100mm)



### **Inductive contacts**

#### General

Electromechanical limit switches in pointer type measuring instrument are equipped with electrical distance sensor (Proximity sensor).

The output signal is govern by the presence or absence of control vane moved by actual value pointer in the magnetic field of the proximity sensor.

Electronic contact essentially comprise

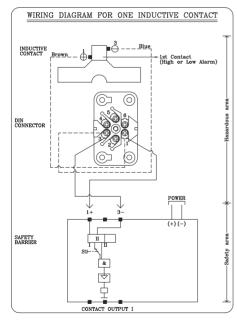
- An adjustable red set pointer
- A supporting arm which is connected with the end set pointer and the carries the proximity sensor, and
- A control vane moved by actual value pointer.

An adjusting lock provided with a separate or fixed key is used for external adjustment of the set pointers of the built-in limit value at which the switching operation is to take place.

Tec	hn	ical d	lata	

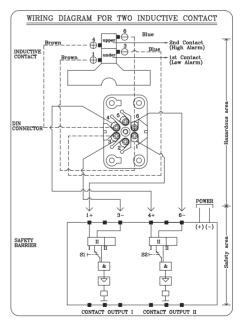
Nominal operating voltage	10 ~ 30 V max.
Breaking capacity	Less than 100 mA
Switching accuracy	Approx 0.5 % of the full scale value
Ambient temperature	-25 ~ 70 °C
Adjusting range	Max. 280°

### **Terminal block arrangement**



SAFETY BARRIER MODEL	Contact Output I (High or Low Alarm)	POWER		
KFA5-SR2-Ex1.W(115V, AC) KFA6-SR2-Ex1.W(230V, AC) KFD2-SR2-Ex1.W(24V,DC)		0       	) 15(-)	





SAFETY BARRIER	Contact Output I	Contact Output II	POWER	
MODEL	(Low Alarm)	(High Alarm)		
KFA5-SR2-Ex2.W(115V, AC) KFA6-SR2-Ex2.W(230V, AC) KFD2-SR2-Ex2.W(24V,DC)		10(COMMON) 11(OPEN) 12(CLOSE)	0 0     14(+) 15(-)	

### Scale ranges

Code	Sacla renge (°C)	Seele encoing (°C)	Minimum stem length (mm)			
Code	Scale range (°C)	Scale spacing(°C)	6.0 and 6.4	8.0 and 10.0		
032	-50 ~ 50	2	55	50		
037	-50 ~ 100	5	45	35		
054	-30 ~ 50	2	70	60		
059	-30 ~ 100	2	50	45		
061	-30 ~ 120	5	45	35		
069	-20 ~ 50	2	80	70		
074	-20 ~ 100	2	45	45		
079	-20 ~ 150	5	40	35		
084	-10 ~ 50	1	95	80		
099	0 ~ 50	1	110	70		
100	0 ~ 60	1	95	80		
101	0~70	2	80	60		
102	0 ~ 80	2	70	55		
104	0 ~ 100	2	55	50		
106	0 ~ 120	2	50	45		
109	0 ~ 150	5	45	35		
114	0 ~ 200	5	35	35		
119	0 ~ 250	5	35	30		
124	0 ~ 300	5	35	25		
129	0 ~ 350	5	30	25		
134	0~400	5	80	65		
144	0 ~ 500	10	70	60		
154	0 ~ 600	10	70	60		

# **Insertion length**

Code	1	2	3	4	5	6	7	8	9	А	В	С
Length (mm)	50	60	70	80	100	120	130	150	175	200	225	250
Code	D	E	F	(	G	Н	J	К	L	М	N	Р

