## Liquid Filled Electric Contact Thermometers for transformer (431T Series)

## **Applications**

- · For transformer, Plant
- · Where signal is required (audible or visual alarm)
- · Corrosive or non-corrosive media
- · Heating and plumbing
- · Varying ambient conditions

## **Temperature Element**

· Gas Filled System (0 ~ 200°C) / SAMA CLASS IIIB

## **Working Range**

· Maximum scale value



## **Standard Specification Overview**

#### Dial Size

· 150mm

#### Reference Accuracy

· ±2.0% of Full Scale

#### Scale Ranges

- · 0 ~ 200°C
- \* For more information, see the ordering information table.

#### **Process Connection**

· PT ("R" in ISO) 1/2", NPT 1/2"

#### **Electric Contacts**

- · AC 125V, 0.5A / 250V, 0.25A
- DC 24V, 0.25A

#### Material

- · Case : Black Finished Aluminium
- · Ring (Cover) : Black Finished Aluminium
- · Connection: 304 SS
- · Stem : 304 SS
- · Window : Polycarbonate
- · Dial : White Aluminum with Black Graduations
- · Pointer: Aluminum Alloy, Black Finished

#### Optional Extra

- · Test Report by Manufacturer
- · Test Report by KOLAS (ILAC-MRA)
- · Stem Material (316 SS)
- · OEM Service for a specific customer

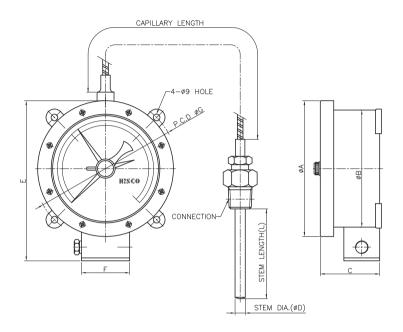
#### **Special Notes**

# Ordering Information for 431T Series

		● = Standard Products	▲ = Available NA = Not Available
Model De	scription	Case & Ring	Contact Location
431T Lic	quid Filled Electric Contact T/G for transformer	Black Finished Aluminium	One High Contact Point (H)
432T Lic	quid Filled Electric Contact T/G for transformer	Black Finished Aluminium	One Low Contact Point (L)
433T Lic	quid Filled Electric Contact T/G for transformer	Black Finished Aluminium	Two Contact Points (H & L)
434T Lic	quid Filled Electric Contact T/G for transformer	Black Finished Aluminium	Two Contact Points (H & HH)
435T Lic	quid Filled Electric Contact T/G for transformer	Black Finished Aluminium	Two Contact Points (L & LL)
Code Dia	al Size	Accuracy	
60 150	0mm	±2.0% of Full Scale	
Code Mo	ounting Type		All
T Up	per Connection Remote Surface Mounting		•
Code Pr	ocess Connection Style		All
2 PT	("R" in ISO Standard)		•
3 PF	("G" in ISO Standard)		<b>A</b>
4 NF	PT		•
Code Pr	ocess Connection Size		All
D 3/8	3"		<b>A</b>
F 1/2	2"		•
H 3/4	4"		<b>A</b>
X Oth	hers		c)
Code Ra	nge		All
XXX Re	fer to the Temperature Range Code Table		•
Code Co	nnection Material		All
F 304	4 SS		•
Code Ca	pillary Length		All
00 N/	A		•
10 1M	1		<b>A</b>
15 1.5	5M		<b>A</b>
20 2M	1		<b>A</b>
30 3M	1		<b>A</b>
40 4M	1		<b>A</b>
50 5M	1		<b>A</b>
60 6M	1		<b>A</b>
XX Oth	hers (Recommend Max Length 10M)		<b>O</b>
Code Se	nsor (Stem) Outer Diameter		All
M8 8.0	)mm		•
M1 10.	.0mm		<b>A</b>
M2 12.	.0mm		<b>A</b>
Please request	for other size of stem out Diameter.		
Code Ser	nsor (Stem) Length		
0075 75	mm 0400 400mm 075	0 750mm	
0100 100	0mm 0450 450mm 080	0 800mm	

0150   150mm   0500   500mm   0850   850mm   0900   900mm   10250   250mm   0600   600mm   0950   950mm   1000   1000mm   10350   350mm   0700   700mm   XXXX   0ther (specify the length in mm or inch)   10350   350mm   0700   700mm   XXXX   0ther (specify the length in mm or inch)   10350   350mm   0700   700mm   XXXX   0ther (specify the length in mm or inch)   10350   350mm   0700   700mm   XXXX   0ther (specify the length in mm or inch)   10350   10350mm   10350   10350mm   10350   10350mm   103							
0250         250mm         0600         600mm         0950         950mm           0300         300mm         0650         650mm         1000         1000mm           0350         350mm         0700         700mm         XXXX         Other (specify the length in mm or inch)           Code         Applicable Accessory Options         All           W1         With Thermowell (Refer to the accessary model 100)         A           J1         Swivel Nut         A           J2         Compression Fitting         A           J3         Adjustable Union         A           J4         Screw Union for 3/4"         A           J0         N/A         ●           Code         Options         All           T1         Test Report by Manufacturer         A           T1         Test Report by KOLAS (ILAC-MRA)         A           Material Option           CM         Stem Material (316 SS)         A           Other Option         A           OE         OEM Service for a specific customer         A           Sample Model Selection : 411T40A2F117F10M80100J0	0150	150mm	0500	500mm	0850	850mm	
0300 300mm 0650 650mm 1000 1000mm  0350 350mm 0700 700mm XXXX 0ther (specify the length in mm or inch)  Code Applicable Accessory Options All  W1 With Thermowell (Refer to the accessary model 100)	0200	200mm	0550	550mm	0900	900mm	
0350 350mm 0700 700mm XXXX Other (specify the length in mm or inch)  Code Applicable Accessory Options  With Thermowell (Refer to the accessary model 100)	0250	250mm	0600	600mm	0950	950mm	
CodeApplicable Accessory OptionsAllW1With Thermowell (Refer to the accessary model 100)AJ1Swivel NutAJ2Compression FittingAJ3Adjustable UnionAJ4Screw Union for 3/4"AJ0N/A•CodeOptionsAllTest ReportsT1Test Report by ManufacturerAT2Test Report by KOLAS (ILAC-MRA)AMaterial OptionCMStem Material (316 SS)AOther OptionASample Model Selection : 411T40A2F117F10M80100J0	0300	300mm	0650	650mm	1000	1000mm	
W1 With Thermowell (Refer to the accessary model 100) ▲   J1 Swivel Nut ▲   J2 Compression Fitting ▲   J3 Adjustable Union ▲   J4 Screw Union for 3/4" ▲   J0 N/A ●   Code Options All   Test Reports   T1 Test Report by Manufacturer ▲   T2 Test Report by KOLAS (ILAC-MRA) ▲   Material Option A   CM Stem Material (316 SS) ▲   Other Option OEM Service for a specific customer ▲   Sample Model Selection : 411T40A2F117F10M80100J0	0350	350mm	0700	700mm	XXXX	Other (specify the length in mm or inch)	
J1         Swivel Nut         ▲           J2         Compression Fitting         ▲           J3         Adjustable Union         ▲           J4         Screw Union for 3/4"         ▲           J0         N/A         ●           Code Options         All           Test Reports           T1         Test Report by Manufacturer         ▲           T2         Test Report by KOLAS (ILAC-MRA)         ▲           Material Option         CM         Stem Material (316 SS)         ▲           Other Option         OE         OEM Service for a specific customer         ▲           Sample Model Selection : 411T40A2F117F10M80100J0         ■	Code	Applicable Acce	ssory Opti	ons			All
J2 Compression Fitting  J3 Adjustable Union  A  J4 Screw Union for 3/4"  A  Code Options  Test Reports  T1 Test Report by Manufacturer  T2 Test Report by KOLAS (ILAC-MRA)  Material Option  CM Stem Material (316 SS)  Other Option  OE OEM Service for a specific customer  A  Sample Model Selection : 411T40A2F117F10M80100J0	W1	With Thermowel	l (Refer to	the accessary mod	del 100)		•
J3 Adjustable Union  J4 Screw Union for 3/4"  J0 N/A  Code Options  Test Reports  T1 Test Report by Manufacturer  T2 Test Report by KOLAS (ILAC-MRA)  Material Option  CM Stem Material (316 SS)  Other Option  OE OEM Service for a specific customer  A  Sample Model Selection : 411T40A2F117F10M80100J0	J1	Swivel Nut					<b>A</b>
J4         Screw Union for 3/4"         ▲           J0         N/A         ●           Code Options         All           Test Reports           T1         Test Report by Manufacturer         ▲           T2         Test Report by KOLAS (ILAC-MRA)         ▲           Material Option           CM         Stem Material (316 SS)         ▲           Other Option         OEM Service for a specific customer         ▲           Sample Model Selection : 411T40A2F117F10M80100J0         ■	J2	Compression Fit	ting				<b>A</b>
J0 N/A   Code Options All   Test Reports Image: Comparition of the properties of the prope	J3	Adjustable Unior	1				<b>A</b>
Code         Options         All           Test Reports           T1         Test Report by Manufacturer         ▲           T2         Test Report by KOLAS (ILAC-MRA)         ▲           Material Option           CM         Stem Material (316 SS)         ▲           Other Option         OEM Service for a specific customer         ▲           Sample Model Selection : 411T40A2F117F10M80100J0         ■	J4	Screw Union for	3/4"				<b>A</b>
Test Reports           T1         Test Report by Manufacturer         ▲           T2         Test Report by KOLAS (ILAC-MRA)         ▲           Material Option           CM         Stem Material (316 SS)         ▲           Other Option         OEM Service for a specific customer         ▲           Sample Model Selection : 411T40A2F117F10M80100J0         ■	J0	N/A					•
T1 Test Report by Manufacturer  T2 Test Report by KOLAS (ILAC-MRA)  Material Option  CM Stem Material (316 SS)  Other Option  OE OEM Service for a specific customer  Sample Model Selection : 411T40A2F117F10M80100J0	Code	Options					All
T2       Test Report by KOLAS (ILAC-MRA)       ▲         Material Option         CM       Stem Material (316 SS)       ▲         Other Option         OE       0EM Service for a specific customer       ▲         Sample Model Selection : 411T40A2F117F10M80100J0	Test Reports						
Material Option           CM Stem Material (316 SS)         ▲           Other Option           0E OEM Service for a specific customer         ▲           Sample Model Selection : 411T40A2F117F10M80100J0	T1	Test Report by M	lanufactur	er			<b>A</b>
CM Stem Material (316 SS)  Other Option  OE OEM Service for a specific customer  Sample Model Selection : 411T40A2F117F10M80100J0	T2	Test Report by K	OLAS (ILA	C-MRA)			<b>A</b>
Other Option  OE OEM Service for a specific customer ▲  Sample Model Selection : 411T40A2F117F10M80100J0	Material Option						
OE OEM Service for a specific customer  Sample Model Selection : 411T40A2F117F10M80100J0	СМ	Stem Material (3	16 SS)				<b>A</b>
Sample Model Selection : 411T40A2F117F10M80100J0	Other Option						
	0E	OEM Service for	a specific	customer			<b>A</b>

# **Liquid Filled Electric Contact Thermometers for transformer (431T Series)**



(UNIT : mm)

Code	Code	Dial Size	A	В	С	D	Е	F	G
60	ø150	ø150	185	158	80	12	215	70	180

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