

TU1

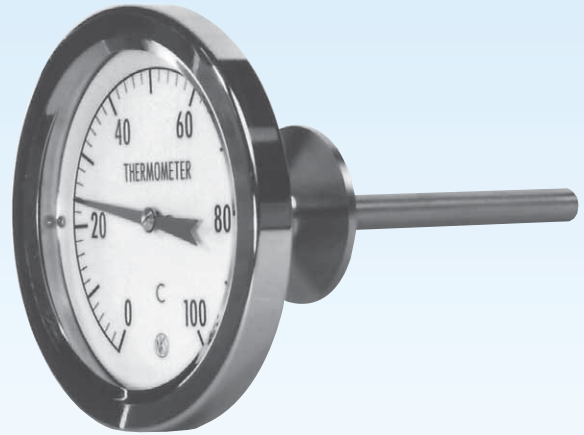
Sanitary Bimetal Thermometers

Outline

This thermometer is specially designed to be used for temperature measuring in a variety of fields where hygiene is taking into consideration, such as food, medicine, cosmetics and biology.

Features

- Since enclosed liquid is not used, it can be used safely without a thermowell.
- The case features equivalent to IP65 with chrome-plated finish, it can be washed and easily drained.



Specifications 1

Size:

φ 75, φ 100

Connection type:

Ferrule, nut type ISO (IDF) Standard

Connection size:

1S (Ferrule type only), 1½S, 2S

Wetted parts material:

SUS316 or SUS304

Temperature range:

0 to 50→0 to 150°C
-30 to 50, -20 to 100°C

Accuracy:

Within ±2%F.S.

Case material:

φ 75 Inner frame: CAC203 Chrome plate
Outer frame: C3604BD Chrome plate
φ 100 Inner frame: CAC203 Chrome plate
Outer frame: C3771 Chrome plate

Glass material:

Inorganic glass

Case construction:

Equivalent to IP65

Weight:

φ 75 Approx. 0.6kg
φ 100 Approx. 0.9kg

Specifications 2

Scale value range, temperature sensor diameter, temperature sensor length:

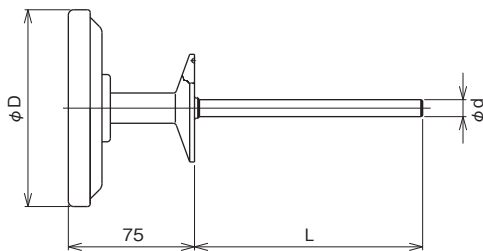
Scale value range °C	Min. scale °C	temperature sensor length (L) mm		
		Min. required insertion dimensions *		Max.
		d = ϕ 8	d = ϕ 10	
-30~ 50	2	110	85	200
-20~100	2	80	65	
0~ 50	1	140	110	
~100	2	85	65	
~120	2	80	65	
~150	2(5)	65	55	

• When minimum scale value of () is size ϕ 75

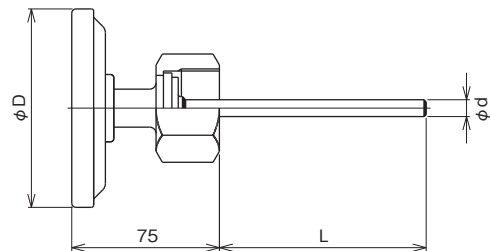
• When indicating temperature sensor dimensions, please specify L dimensions at 5mm increments within the range described above.

*These dimensions are the minimum insertion length of the temperature sensor into the measured object.

Dimensions



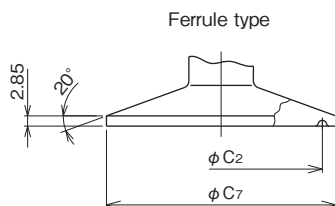
Ferrule type



Nut type

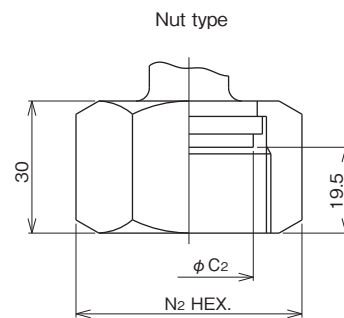
Model	Size	D
TU13	75	94
TU14	100	119

Detail view



Orifice	1 S	1½ S	2 S
C ₂	43.5	43.5	56.5
C ₇	50.5	50.5	64

ISO (IDF) standard



Orifice	1½ S	2 S
C ₂	42.7	56.2
N ₂ HEX.	56×64.7	71×82

ISO (IDF) standard

Model number configuration

Please specify the model number, each specs and the range for ordering.

Model

T U 1 — — — — — 0 × × × × × × × — — —

Sanitary Bimetal Thermometers ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬ ⑭ ⑮

Model number		Selective spec.					Additional spec. (Option)				
Model	3	φ 75 DA-frame									
	4	φ 100 DA-frame									
① Connection	1	Ferrule type									
	2	Nut type									
② Connection size	2	Size: 1S					Ferrule type only				
	3	Size: 1½S									
	4	Size: 2S									
③ Wetted parts material	3	SUS304									
	4	SUS316									
④ Range (°C)	1	0 to 50, 100, 120, 150									
	2	-30 to 50, -20 to 100									
⑤ Temperature sensor material	1	SUS304									
	2	SUS316									
⑥ Temperature sensor diameter	1	d=φ 8									
	2	d=φ 10									
⑦ Temp. sensor length (mm) L size	0	Min. size to 200mm									
⑮ Documents	0	Nil									
	1	Required (Please specify the desired documents separately.) Submission drawings, instruction manual, inspection procedure, mill sheet, test report (1 pc 1 copy), inspection / traceability certificate, attended inspection									

Please specify the temperature range and units separately besides selection of range code.

[Manufacturing range]
• Glass material: Inorganic glass

* Specify "X" if there is no specification item.