



【Feature】

TS3 is a flange type thermocouple that can be used in various applications such as inside furnaces and flues up to 1050℃. The standard flange is JIS standard, but we can also manufacture JPI and ANSI standard flanges.

【Common Specifications】

Element : T, J, E, K
Tolerance : Class1, Class2
Nember : Single, Double of element

Measuring junction : Non-grounding (standard)

Insulation resistance : 20MΩ or more with 100V (φ 2.0 or less)
100MΩ or more with 500V (φ 2.3 or more)

【Special specifications】

- ◇ Built-in converter (DC4-20mA output)
 - *Single element only
- ◇ Compatible with special flanges
- ◇ With Teflon tube
- ◇ Sheath bending process
- ◇ Sheath material NCF600 (Inconel)

【Option】

- ◇ Special connector(TKC)
- ◇ Compensation cable (TCW)

【Ordering code】

TS3 — — — —

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫

Contents	Code	Specifications
Model	TS3	Flange type Sheath Thermocouple With terminal and Thread fitting
① Tolerance	1	JIS Class 1
	2	JIS Class 2
	3	ANSISPECIAL
	4	ANSISTANDARD
② Element type	T	Type ST (Copper/Constantan)
	J	Type SJ (Iron/Constantan)
	E	Type SE (Nickel–Chromium/Constantan)
	K	Type SK (Nickel–Chromium/Nickel–Alumel)
③ Number of elements	S	Single element
	D	Double element
④ Connection Head	N	Standard : Die–cast aluminum (Weather proof)
	F	Special : Phenol resin
	T	2–way cable connection : Aluminum casting (Weather proof)
	W	Double cable connection : Aluminum casting (Weather proof)
⑤ Sheath Diameter	K	Small type : Die–cast aluminum (Weather proof)
	A	φ 1.0mm (SUS316) ※Single element only
	B	φ 1.6mm (SUS316) ※Single element only
	C	φ 2.3mm (SUS316)
	E	φ 3.2mm (SUS316)
	F	φ 4.8mm (SUS316)
	G	φ 6.4mm (SUS316)
	H	φ 8mm (SUS316)
⑥ Nipple	5	50mm (φ 12mm, SUS304)
	6	100mm (φ 12mm, SUS304)
	7	150mm (φ 12mm, SUS304)
	8	50mm (φ 21.7mm, SUS304)
	9	100mm (φ 21.7mm, SUS304)
	10	150mm (φ 21.7mm, SUS304)
⑦ Flange nominal pressure	05	JIS 5K
	10	JIS 10K
	20	JIS 20K
	40	JIS 40K
	□□	Other than above
⑧ Flange face seat	R	RF (Raised face)
	F	FF (Full face)
⑨ Flange nominal diameter	15	15A
	20	20A
	25	25A
	40	40A
	□□	Other than above
⑩ Flange material	UB	SUS304
	UC	SUS316
	Z	Other than above
⑪ Immersion length	□□□	Length below Flange(mm)
⑫ Special	N	Standard
	S	Please inform special specifications

※Temperature range depends on the element type and sheath diameter

【Dimensions】

