

Temperature Sensors (General-Purpose Thermocouple with Terminal Box) | YYC Series

The thermocouple temperature sensors in the YYC series are suitable for measurement in a wide range of temperatures and have a variety of shapes for various applications.



Note: The model in the photograph is YYC1.

Specifications

Standards compliance	JIS C 1602
Thermocouple type	K, J, E, T
Tolerance	Class 2, Class 1
Temperature measuring junction	Not grounded
Protection tube material	SUS316
Measurement range	See Table 1.
Terminal box ambient temperature	Room temperature to 90 °C
Protection tube pressure resistance	1 MPa

Table 1. Measurement range

Thermocouple type	Protection tube outer diameter			
	φ10 mm	φ12 mm	φ15 mm	φ21.7 mm
K	0 to 750 °C	0 to 850 °C	0 to 850 °C	0 to 900 °C
J	0 to 450 °C	0 to 500 °C	0 to 500 °C	0 to 600 °C
E	0 to 500 °C	0 to 550 °C	0 to 550 °C	0 to 700 °C
T	0 to 250 °C	0 to 300 °C	0 to 300 °C	—

Straight type

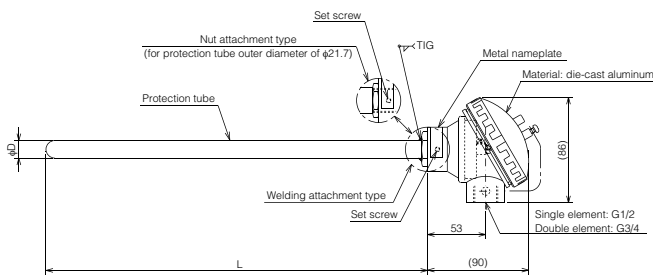
Model No. configuration

Ex.: YYC1K10350000000

Basic model No.	Sensor type	Protection tube outer diameter (mm), φD	Protection tube length (mm), L	Option	Tolerance class & inspection results	Remarks
YYC1						Single element
YYC4						Double element
	K					K thermocouple
	J					J thermocouple
	E					E thermocouple
	T					T thermocouple
		10 (φ10 mm)				
		12 (φ12 mm)				
		15 (φ15 mm)				
		22 (φ21.7 mm)				
			050 (50 mm)			Length is freely selectable from 50 to 1,500 mm Increments: Less than 1,000 mm: 1 mm 1,000 mm or more: 10 mm
			100 (100 mm)			
			150 (150 mm)			
			200 (200 mm)			
			350 (350 mm)			
			500 (500 mm)			
			750 (750 mm)			
			A00 (1,000 mm)			
			A50 (1,500 mm)			
				00000		None
					0	Class 2 without inspection results
					D	Class 2 with inspection results
					Y	Class 2 with JCSS calibration certificate
					1	Class 1 without inspection results
					E	Class 1 with inspection results
					W	Class 1 with JCSS calibration certificate

Note: Recalibration is available for temperature sensors whose protection tube is 350 mm in length or longer.
• Other shapes are also available.

External dimensions (unit: mm)



Temperature Sensors (General-Purpose Thermocouple with Terminal Box) | YYC Series

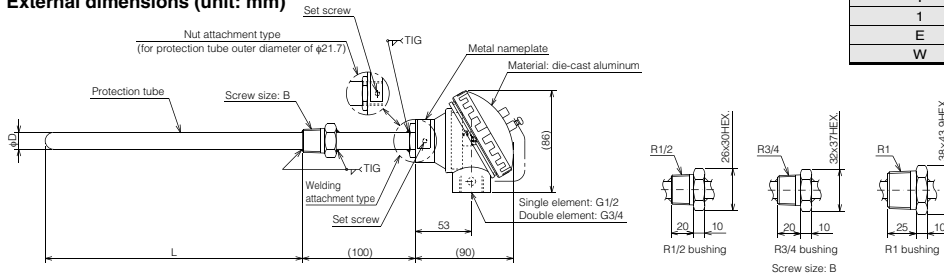
Screw-mounting type

Model No. configuration

Ex.: YYC2K10350B34000

Basic model No.	Sensor type	Protection tube outer diameter (mm), φD	Protection tube length (mm), L	Screw (screw size)	Option	Tolerance class & inspection results	Remarks
YYC2							Single element
YYC5							Double element
	K						K thermocouple
	J						J thermocouple
	E						E thermocouple
	T						T thermocouple
		10 (φ10 mm)					
		12 (φ12 mm)					
		15 (φ15 mm)					
		22 (φ21.7 mm)					
			050 (50 mm)				Length is freely selectable from 50 to 1,500 mm Increments: Less than 1,000 mm: 1 mm 1,000 mm or more: 10 mm
			100 (100 mm)				
			150 (150 mm)				
			200 (200 mm)				
			350 (350 mm)				
			500 (500 mm)				
			750 (750 mm)				
			A00 (1,000 mm)				
			A50 (1,500 mm)				
				B12 (R1/2)			
				B34 (R3/4)			All but φ21.7 mm can be selected.
				B10 (R1)			Only φ21.7 mm can be selected.
					00		None
						0	Class 2 without inspection results
						D	Class 2 with inspection results
						Y	Class 2 with JCSS calibration certificate
						1	Class 1 without inspection results
						E	Class 1 with inspection results
						W	Class 1 with JCSS calibration certificate

External dimensions (unit: mm)



Note: Recalibration is available for temperature sensors whose protection tube is 350 mm in length or longer.
•Other shapes are also available.

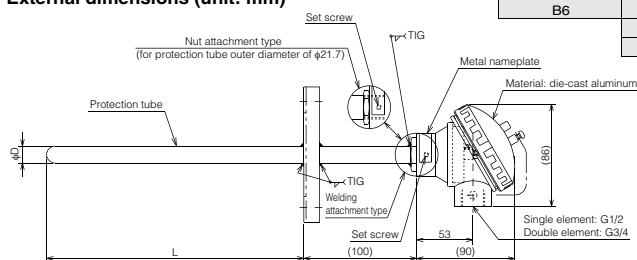
Flange type

Model No. configuration

Ex.: YYC3K10350B1F000

Basic model No.	Sensor type	Protection tube outer diameter (mm), φD	Protection tube length (mm), L	Flange type	Flange seating face	Option	Tolerance class & inspection results	Remarks
YYC3								Single element
YYC6								Double element
	K							K thermocouple
	J							J thermocouple
	E							E thermocouple
	T							T thermocouple
		10 (φ10 mm)						
		12 (φ12 mm)						
		15 (φ15 mm)						
		22 (φ21.7 mm)						
			050 (50 mm)					Length is freely selectable from 50 to 1,500 mm Increments: Less than 1,000 mm: 1 mm 1,000 mm or more: 10 mm
			100 (100 mm)					
			150 (150 mm)					
			200 (200 mm)					
			350 (350 mm)					
			500 (500 mm)					
			750 (750 mm)					
			A00 (1,000 mm)					
			A50 (1,500 mm)					
				A0				
				A1				JIS standard: 5 K 15 A
				A2				JIS standard: 5 K 20 A
				A3				JIS standard: 5 K 25 A
				A4				JIS standard: 5 K 32 A
				A5				JIS standard: 5 K 40 A
				A6				JIS standard: 5 K 50 A
				B0				JIS standard: 10 K 10 A
				B1				JIS standard: 10 K 15 A
				B2				JIS standard: 10 K 20 A
				B3				JIS standard: 10 K 25 A
				B4				JIS standard: 10 K 32 A
				B5				JIS standard: 10 K 40 A
				B6				JIS standard: 10 K 50 A
					F			Flat type
					R			Rib type
						00		None
							0	Class 2 without inspection results
							D	Class 2 with inspection results
							Y	Class 2 with JCSS calibration certificate
							1	Class 1 without inspection results
							E	Class 1 with inspection results
							W	Class 1 with JCSS calibration certificate

External dimensions (unit: mm)



For the shape of the flange, see page 6-24.

Note: Recalibration is available for temperature sensors whose protection tube is 350 mm in length or longer.
•Other shapes are also available.