Dual-output Thermocouple Converter



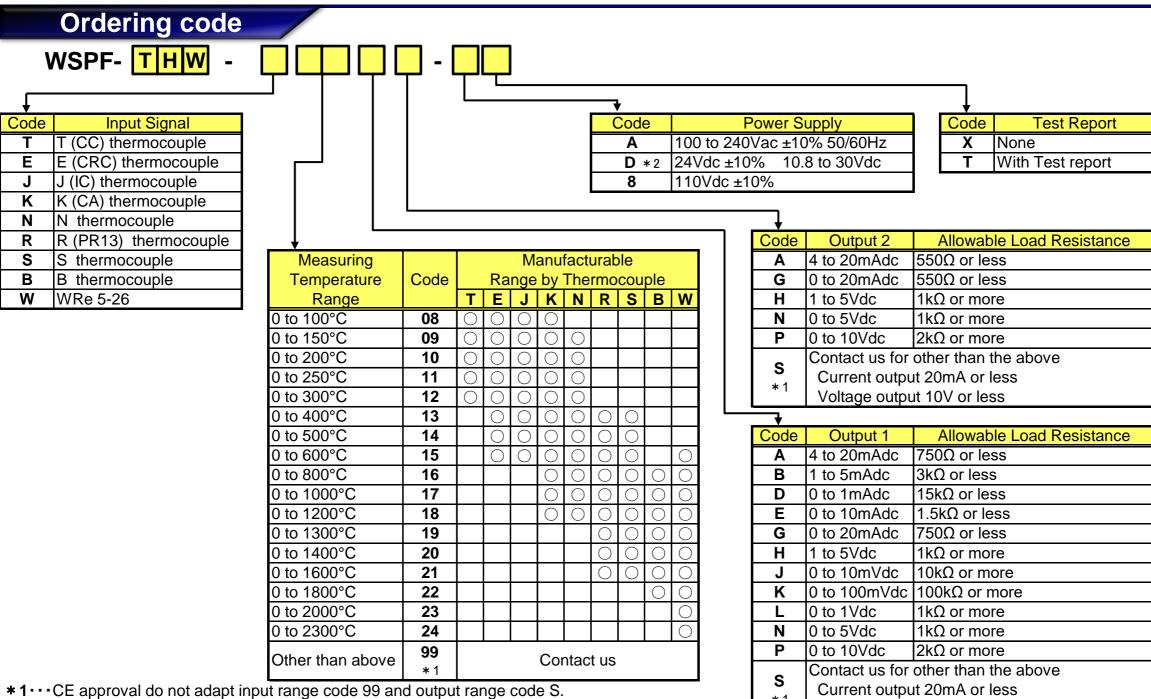


This compact plug-in converter accepts Thermocouples input conforming to JIS standard and provides optically isolated two DC outputs.

This converter has a linearizer, a cold junction compensation circuit, and a burnout protection circuit as standard equipment which is required to measure temperature.

Features

- ★ Fine Zero & span adjustment by 15 turn trimmer
- ★ Zero & span adjustment ±10% full scale
- ★ Safe design by dielectric strength of 3000Vac
- ★ 5 years warranty, long life
- ★ CE approved
- ★ Linearizer, Cold junction compensation circuit, and Burnout protection circuit built-in



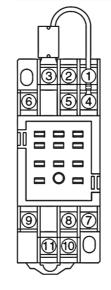
- *2···CE approval do not adapt when power supply is 10.8Vdc to 30Vdc.

Specifications

<u> </u>				
Accuracy	±0.2% FS (at 23±10°C)			
Response time	Approx. 25ms (0 to 90%)			
Allowable load	Current output			
	First output : 15V or less of voltage drop between output			
	Second output: 11V or less of voltage drop between output			
	Voltage output			
	Load current 5mA or less *1µA or less if the output is less than 1V			
Zero & span adjustment	±10% FS (15 turn trimmer)			
Operating temperature	-5 to +55°C			
Operating relative humidity	90% or less (Non-condensing)			
Temperature coefficient	±0.015% of span per °C			
Cold junction compensation accuracy	±0.5°C or less at 23±10°C (±1°C or less for R, WR and S)			
Cold junction compensation temperature	10 to 40°C *R, S, WR thermocouple : ±1°C			
Linearization	Available (30% FS or less of R and W is out of range)			
Burnout protection	Upscale / downscale *Please specify when you order for downscale			
Isolation	Between input, output, and power supply			
Insulation resistance	100MΩ or more with 500Vdc megger			
	Between input, output, and power supply terminal			
Dielectric strength	3000Vac for 1 min between power supply and input/output terminal,			
	2000Vac for 1 min between input and output terminal			
Power consumption	Approx. 5.6VA (AC), Approx. 90mA (DC)			
Power supply variation	±0.1% FS (within the range of rated voltage)			
Dimensions	84(H) X 29.5(W) X 106.5(D)mm			
Weight	Approx. 150g			
Structure	Plug-in (Body part and socket part)			
Connection	M3 SEMS screw part of the base socket (Tightening torque 0.6N·m)			
Mounting	DIN rail or wall surface			
Case color and material	Ivory, ABS resin, flame retardant grade UL94V-0			
EMC directive	EN61326-1, EN61010-1, EN50581			
	Installation category: II, Pollution degree: 2			
Rated altitude	2000m or less			

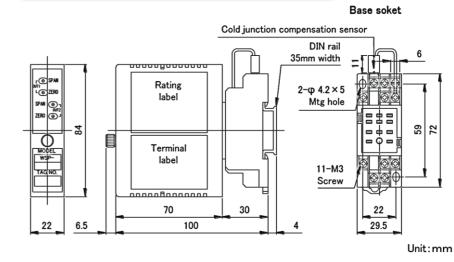
Terminal connections

Voltage output 10V or less



	No	Symbol		Description
	1	INPUT	+	Input
	2	OUTPUT-2	+	No.2 Output
	3	INPUT	ı	Input
	1	4 CJC		Cold junction
	4			compensation
	5	OUTPUT-2	ı	No.2 Output
	6	NC		No connection
	7	OUTPUT-1	+	No.1 Output
	8	NC		No connection
	9	OUTPUT-1	-	No.1 Output
	10 11	POWER	U(+) V(-)	Power Supply

Demensions



* Specification is subject to change without notice