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
- \star 5 years warranty, long life
- ★ CE approved
- ★ Linearizer, Cold junction compensation circuit, and Burnout protection circuit built-in

Ordering code

	WSP- <mark>THW</mark> -	
↓ T		
Code	Input Signal	
Т	T (CC) thermocouple	
Е	E (CRC) thermocouple	ſ
J	J (IC) thermocouple	
K	K (CA) thermocouple	
N	N thermocouple	
R	R (PR13) thermocouple	
S	S thermocouple	
В	B thermocouple	Т
W	WRe 5-26	

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							1	,								
							Code Power Supply							Code	Test Report	
								Α		100			0% 50/60Hz		Х	None
							D * 2		24Vdc ±10% 10.8 to 30Vdc			Т	With Test report			
	8 110Vdc ±10%															
↓ —												Code	Output 2		Allowab	le Load Resistanc
Measuring				M	anu	fact	urab	le				Α	4 to 20mAdc	350)Ω or les	SS
Temperature	Code		Ra	inge	by	The	rmo	cou	ple			G	0 to 20mAdc	350)Ω or les	SS
Range		Т	E	J	K	Ν	R	S	В	W		Н	1 to 5Vdc	1kΩ or more		
0 to 100°C	08	\bigcirc	\bigcirc	\bigcirc	\bigcirc							N	0 to 5Vdc	1kΩ or more		
0 to 150°C	09	\bigcirc	0	\bigcirc	Ο	\bigcirc						Р	0 to 10Vdc	2k	2kΩ or more	
0 to 200°C			Contact us for	other than the above												
0 to 250°C	11	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc						S	Current outpu	put 20mA or less		
0 to 300°C	12	0	\bigcirc	\bigcirc	\bigcirc	\bigcirc						* 1	*1		ut 10V or less	
0 to 400°C	13		\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc								
0 to 500°C	14		\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc				Code	Output 1		Allowab	le Load Resistanc
0 to 600°C	15		\bigcirc	\bigcirc	\bigcirc	\bigcirc	0	\bigcirc		0		Α	4 to 20mAdc	750Ω or less		
0 to 800°C	16				0	0	0	0	0	0		В	1 to 5mAdc	3kΩ	Ω or less	3
0 to 1000°C	17				\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc	\bigcirc		D	0 to 1mAdc	15	<Ω or les	SS
0 to 1200°C	18				Ο	\bigcirc	\bigcirc	\bigcirc	0	0		E	0 to 10mAdc	1.5	kΩ or le	SS
0 to 1300°C	19						\bigcirc	\bigcirc	\bigcirc	\bigcirc		G	0 to 20mAdc	750Ω or less		
0 to 1400°C	20						\bigcirc	\bigcirc	\bigcirc	\bigcirc		Н	1 to 5Vdc	1kΩ	Ω or mor	e
0 to 1600°C	21						\bigcirc	\bigcirc	0	0		J	0 to 10mVdc	10	Ω or mo	ore
0 to 1800°C	22								0	0		К	0 to 100mVdc	100)kΩ or n	nore
0 to 2000°C	23									0		L	0 to 1Vdc	200	$\Omega \Omega$ or mo	ore
0 to 2300°C	24			1						0		N	0 to 5Vdc	1kΩ	Ω or mor	re in the second se
	99			•	<u></u>		4					Р	0 to 10Vdc	2k	Ω or mor	re in the second se
Other than above	*1	Contact us										Contact us for				
t range code 99 an	d outpu	ut ra	inae	e co	de S	S.					I	S	Current outpu	ut 20)mA or I	ess
n power supply is 1	•		-			-						* 1	Voltage output			

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

Specifications

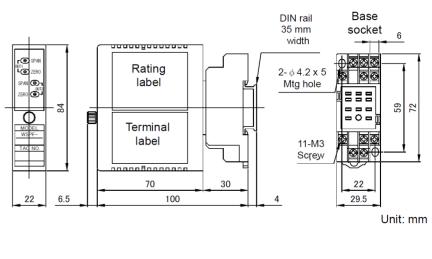
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Terminal connections

IsolationBetween input, output, and power supplyInsulation resistance100MΩ or more with 500Vdc megger Between input, output, and power supply terminalDielectric strength3000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between input and output terminalPower consumptionApprox. 5.6VA (AC), Approx. 90mA (DC)Power supply variation±0.1% FS (within the range of rated voltage)Dimensions84(H) X 29.5(W) X 106.5(D)mmWeightApprox. 150gStructurePlug-in (Body part and socket part)ConnectionM3 SEMS screw part of the base socket (Tightening torque 0.6N·m)MountingDIN rail or wall surfaceCase color and materialIvory, ABS resin, flame retardant grade UL94V-0EMC directiveEN61326-1, EN61010-1, EN50581 Installation category : II, Pollution degree : 2	Accuracy	±0.2% FS (at 23±10°C)						
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% FS 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 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 s	Response time	Approx. 25ms (0 to 90%)						
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% FS 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 Isolation Between input, output, and power supply Insulation resistance 100MΩ or more with 500Vdc megger Between input, output, and power supply terminal 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between input and output terminal Dielectric strength 3000Vac for 1 min between input and output terminal 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply Dimensions 84(H) X 29.5(W) X 106.5(D)mm	Allowable load	Current output						
Voltage output Load current 5mA or less *1μA or less if the output is less than 1V Zero & span adjustment Derating temperature Operating temperature Operating relative humidity 90% or less (Non-condensing) Temperature coefficient ±0.015% FS of span per °C Cold junction compensation accuracy 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 Linearization Burnout protection Isolation Available (30% FS or less of R and W is out of range) Burnout protection Upscale / downscale *Please specify when you order for Isolation Between input, output, and power supply Insulation resistance Dielectric strength 2000Vac for 1 min between power supply terminal 2000Vac for 1 min between input and output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between jourd and output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output terminal, 2000Vac for 1 min between power supply and input/output 3000Vac for 1 min between power supply and		First output : 15V or less of voltage drop between output						
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Power supply variation±0.1% FS (within the range of rated voltage)Dimensions84(H) X 29.5(W) X 106.5(D)mmWeightApprox. 150gStructurePlug-in (Body part and socket part)ConnectionM3 SEMS screw part of the base socket (Tightening torque 0.6N·m)MountingDIN rail or wall surfaceCase color and materialIvory, ABS resin, flame retardant grade UL94V-0EMC directiveEN61326-1, EN61010-1, EN50581Installation category : II, Pollution degree : 2		2000Vac for 1 min between input and output terminal						
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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	Connection							
EMC directive EN61326-1, EN61010-1, EN50581 Installation category : II, Pollution degree : 2	Mounting							
Installation category : II, Pollution degree : 2	Case color and material	Ivory, ABS resin, flame retardant grade UL94V-0						
	EMC directive	EN61326-1, EN61010-1, EN50581						
Rated altitude 2000m or less		Installation category : II, Pollution degree : 2						
	Rated altitude	2000m or less						

\bigcirc	No	Symbol		Description		
	1	INPUT	+	Input		
_┟╸┟╷│╎╖	2	OUTPUT-2	+	No.2 Output		
	3	INPUT	-	Input		
6 64	4	CJC		Cold junction		
al rafe	4	CJC		compensation		
	5	OUTPUT-2	-	No.2 Output		
	6	NC		No connection		
	7	OUTPUT-1	+	No.1 Output		
	8	NC		No connection		
9 87	9	OUTPUT-1	-	No.1 Output		
	10 11	POWER	U(+) V(-)	Power Supply		

Demensions



* Specification is subject to change without notice

Watanabe Electric Industry Co., Ltd.