

Ordering code

WSP- RS				
Code	Input	Input Resistance		
10	0 to 10mVdc	1MΩ		
11	0 to 100mVdc	1MΩ		
12	0 to 1Vdc	1MΩ		
13	0 to 5Vdc	1MΩ		
14	1 to 5Vdc	1MΩ		
15	0 to 10Vdc	1MΩ		
16	0 to 50mVdc	1MΩ		
17	0 to 60mVdc	1MΩ		
32	0 to 1mAdc	100Ω		
33	0 to 10mAdc	50Ω		
34	0 to 16mAdc	50Ω		
35	0 to 20mAdc	50Ω		
36	4 to 20mAdc	50Ω		
	Contact us for other than the above			
99	Full Scale Range:			
* 1	Current input 1mA to 20mA			
	Voltage input 10mV to 10V			

Code	Output	Allowable Load		
Α	4 to 20mAdc	750Ω or less		
D	0 to 1mAdc	15kΩ or less		
	Accuracy at ±1.6%			
G	0 to 20mAdc	750Ω or less		
н	1 to 5Vdc	1kΩ or more		
L	0 to 1Vdc	200Ω or more		
N	0 to 5Vdc	1kΩ or more		
Р	0 to 10Vdc	2kΩ or more		
S * 1	Contact us for other than the above			
	Current output 20mA or less			
	Voltage output 10V or less			

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Code	Test Report	
Х	None	
T With Test report		
+		
Code	Power Supply	
Λ	100 to 240Vac ±10% 50/60Hz	

24Vdc ±10%

100 to 120Vdc ±10%

*1···CE approval do not adapt input range code 99 and output range code S.

Specifications

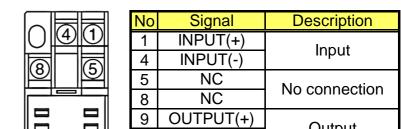
Accuracy	±0.1% FS (at 23°C)	
-	* Accuracy differs on Code '99' and 'S', depending	
	on the range.	
	* Out of warranty when the input is 1% or less.	
Response time	Approx. 100ms (0 to 90%)	
Allowable load resistance	Current output	
	15V or less of voltage drop	
	between output terminal	
	Voltage output	
	Load current 2mA or less	
	For 1V FS or less of output the current is	
	1mA or less	
Zero & span adjustment	±10% FS (1 turn trimmer)	
Output shutdown function	A function to output 0 forcibly, when the output is	
	below 10% of rated value.	
	Default : 10% (Able to change 0 to 20% when order)	
Operating temperature	-5 to +55°C	
Operating relative humidity	90% or less (non-condensing)	
Temperature coefficient ±0.015% FS of span per °C		
Isolation	Between input, output, and power supply	
Insulation resistance	100MΩ or more with a 500Vdc megger	
	Between input, output, and power supply terminal	
Dielectric strength	2000Vac for 1 minute	
Power consumption	For code 'A' : Approx. 5.5VA (100 to 240Vac ±10%)	
	For code 'A' : Approx. 100mA (24Vdc ±10%)	
	For code '8' : Approx. 25mA (100 to 120Vdc ±10%)	
Power supply variation	±0.1% FS (within the range of rated voltage)	
Dimensions	84(H) X 23(W) X 106.5(D)mm	
Weight	Approx. 150g	
Structure	Plug-in	
Connection	M3 SEMS screw part of the base socket	
Material of terminal screw	Chromated iron	
Case color and material	Ivory, heat-resistant ABS resin(94V-0)	
Applicable Directive	EN61326-1, EN61010-1, EN50581	
	Installation category : II, Pollution degree : 2	
Mounting	DIN rail or wall surface	

Terminal connections

9

D

8



This compact plug-in signal converter accepts signal with square-law characteristics and provides optically isolated signal output, corresponding to the square root. It amplifies and converts the selected DC input to the selected DC output. It can use for extraction of square root of differential pressure type / open-channel flowmeter (linearization).

Features

- ★ Dielectric strength of 2000Vac between input, output and power supply
- ★ Both AC and DC power supply are available
- ★ Accuracy at 0.1% FS, Response time 100ms
- ★ Easy maintenance by plug-in structure
- ★ CE approved

	12	OUTPUT(-)	Output
	13	POWER U(+)	Power Supply
	14	POWER V(-)	Power Supply

* Specification is subject to change without notice

Watanabe Electric Industry Co. Ltd.