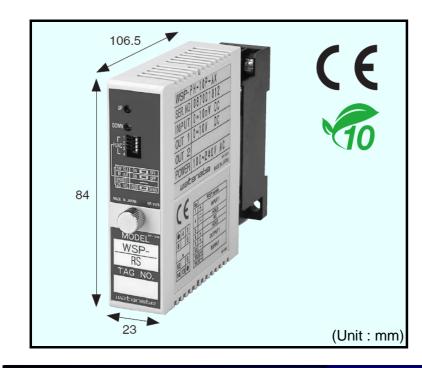
This compact plug-in signal converter accepts signal with square-law characteristics

It can use for extraction of square root of differential pressure type / open-channel

and provides optically isolated signal output, corresponding to the square root.

It amplifies and converts the selected DC input to the selected DC output.

★ Dielectric strength of 2000Vac between input, output and power supply



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	15k Ω or less		
D	Accuracy at ±1.6%			
G	0 to 20mAdc	750Ω or less		
H	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	Contact us for other than the above			
3 *1	Current output 20mA or less			
Ψļ	Voltage output 10V or less			

flowmeter (linearization).

Features

★ CE approved

★ Both AC and DC power supply are available ★ Accuracy at 0.1% FS, Response time 100ms

★ Easy maintenance by plug-in structure

Code	Test Report
Х	None
Т	With Test report
ļ	
Code	Power Supply

	Code	Power Supply		
	Α	100 to 240Vac ±10% 50/60Hz		
D 24Vdc ±10%		24Vdc ±10%		
	8	100 to 120Vdc ±10%		

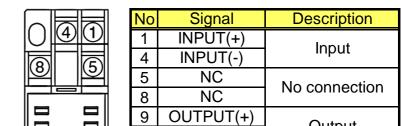
*1···CE approval do not adapt input range code 99 and output range code S.

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		
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, EN IEC 63000	
	Installation category : II, Pollution degree : 2	
Mounting	DIN rail or wall surface	

Terminal connections

9



	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.