



This compact plug-in converter accepts a RTD input and provides optically isolated DC voltage or current outputs. This converter has a linearizer 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  $\pm 10\%$  full scale
- ★ Safe design by dielectric strength of 3000Vac
- ★ 5 years warranty, long life
- ★ CE approved
- ★ Linearizer and Burnout protection circuit built-in
- ★ High accuracy at 0.1% FS, Response time 25ms

## Ordering code

WSP- **RTS** - [ ] [ ] [ ] - [ ] [ ]

Code	RTD	Manufacturable Range	
		Temp. Range	Min. Span
F	Pt100Ω	-200 to +850°C	50°C or more
P	JPt100Ω	-200 to +500°C	50°C or more
N	Ni508.4Ω	-50 to +200°C	30°C or more

Code	Measuring Temperature Range	Accuracy
10	0 to 50°C	$\pm 0.2\%$ FS
11	0 to 100°C	$\pm 0.1\%$ FS
12	0 to 150°C	$\pm 0.1\%$ FS
13	0 to 200°C	$\pm 0.1\%$ FS
25	0 to 250°C	$\pm 0.1\%$ FS
30	0 to 300°C	$\pm 0.1\%$ FS
35	0 to 350°C	$\pm 0.1\%$ FS
40	0 to 400°C	$\pm 0.1\%$ FS
50	0 to 500°C	$\pm 0.1\%$ FS
60	0 to 600°C	$\pm 0.1\%$ FS
14	-20 to +80°C	$\pm 0.1\%$ FS
15	-50 to +50°C	$\pm 0.1\%$ FS
16	-50 to +100°C	$\pm 0.1\%$ FS
17	-100 to +100°C	$\pm 0.1\%$ FS
18	-200 to +200°C	$\pm 0.1\%$ FS
99	Contact us for other than the above	

Code	Test Report
X	None
T	With Test report

Code	Power Supply
A	100 to 240Vac $\pm 10\%$ 50/60Hz
D	24Vdc $\pm 10\%$
*2	10.8 to 30Vdc
8	110Vdc $\pm 10\%$

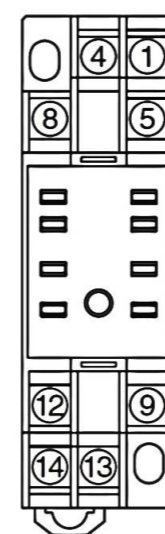
Code	Output	Allowable Load Resistance
A	4 to 20mA dc	750Ω or less
B	1 to 5mA dc	3kΩ or less
D	0 to 1mA dc	15kΩ or less
E	0 to 10mA dc	1.5kΩ or less
G	0 to 20mA dc	750Ω or less
H	1 to 5V dc	1kΩ or more
J	0 to 10mV dc	10kΩ or more
K	0 to 100mV dc	100kΩ or more
L	0 to 1V dc	200Ω or more
N	0 to 5V dc	1kΩ or more
P	0 to 10V dc	2kΩ or more
S	Contact us for other than the above Current output 20mA or less Voltage output 10V or less	

\* 1...CE approval do not adapt input range code 99 and output range code S.  
\* 2...CE approval do not adapt when power supply is 10.8Vdc to 30Vdc.

## Specifications

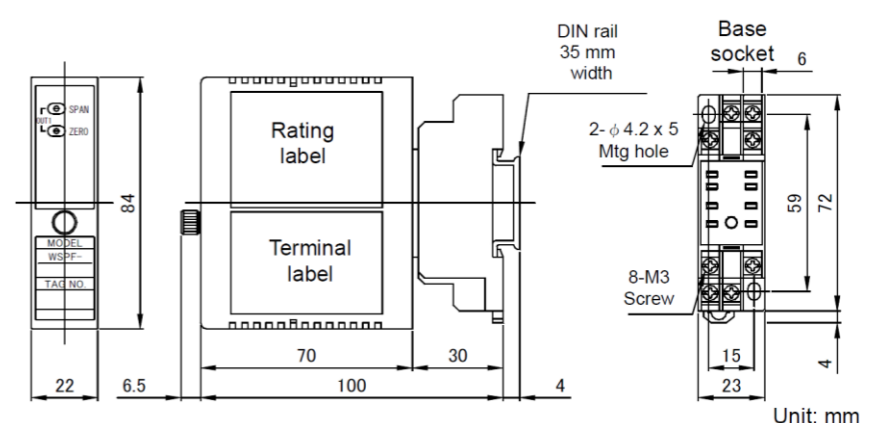
Accuracy	$\pm 0.1\%$ FS (at 23°C)
Response time	Approx. 25ms (0 to 90%)
Allowable load	Current output 15V or less of voltage drop Voltage output Load current 5mA or less *1μA or less if the output is less than 1V FS
Zero & span adjustment	$\pm 10\%$ FS (15 turn trimmer)
Operating temperature	-5 to +55°C
Storage temperature range	-10 to +60°C
Operating relative humidity	90% or less (Non-condensing)
Temperature coefficient	$\pm 0.015\%$ FS of span per °C
Linearization	Available
Burnout protection	Upscale (less than 1.5sec) *Please contact us 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. 4.5VA (AC), Approx. 66mA (DC)
Power supply variation	$\pm 0.1\%$ FS (within the range of rated voltage)
Dimensions	84(H) X 23(W) X 106.5(D)mm
Weight	Approx. 130g
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



No	Symbol	Description
1	A	Input
4	B	
5	B	
8	NC	No connection
9	+	Output
12	-	
13	U(+)	Power Supply
14	V(-)	

## Dimensions



\* Specification is subject to change without notice