



This compact plug-in converter (isolator) accepts a DC voltage or current input and provides optically isolated DC voltage or current output. It amplifies and converts the selected DC input to the selected DC output. And also provides isolation of up to 2000V between the signal input, outputs, and power supply.

Features

- ★ Isolated two signal outputs are available.
- ★ Dielectric strength of 2000Vac between input, outputs and power supply.
- ★ Both AC and DC power supply are available.
- ★ Accuracy at 0.1% FS, Response time 25ms.
- ★ Easy maintain at plug-in structure.
- ★ CE marking, RoHS conform.

Ordering code

WSP- **DSW** - [] [] [] - [] []

Code	Input Signal	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
17	0 to 60mVdc	1MΩ
24	±5Vdc	1MΩ
25	±10Vdc	1MΩ
30	0 to 10μAdc	1kΩ
31	0 to 100μAdc	100Ω
32	0 to 1mAdc	100Ω
33	0 to 10mAdc	50Ω
35	0 to 20mAdc	50Ω
36	4 to 20mAdc	50Ω
40	±1mAdc	100Ω
41	±20mAdc	50Ω
99	Contact us for other than the above	
*1	Full Scale Range: Current input 10μA to 20mA Voltage input 10mV to 300V	

Code	First Output Signal	Allowable Load
A	4 to 20mAdc	less than 750Ω
B	1 to 5mAdc	less than 3kΩ
D	0 to 1mAdc	less than 15kΩ
E	0 to 10mAdc	less than 1.5kΩ
G	0 to 20mAdc	less than 750Ω
H	1 to 5Vdc	more than 1kΩ
J	0 to 10mVdc	more than 10kΩ
K	0 to 100mVdc	more than 100kΩ
L	0 to 1Vdc	more than 200Ω
N	0 to 5Vdc	more than 1kΩ
P	0 to 10Vdc	more than 2kΩ
R	±10Vdc	more than 2kΩ
S	Contact us for other than the above	
*1	Current output less than 20mA Voltage output less than 10V	

Code	Test Report
X	None
T	with Test report

Code	Power Supply
A	100 to 240Vac ±10% 50/60Hz
D	24Vdc ±10%
*2	10.8 to 26.4Vdc
8	110Vdc ±10%

Code	Second Output Signal	Allowable Load
A	4 to 20mAdc	less than 350Ω
D	0 to 1mAdc	less than 7kΩ
G	0 to 20mAdc	less than 350Ω
H	1 to 5Vdc	more than 1kΩ
L	0 to 1Vdc	more than 200Ω
N	0 to 5Vdc	more than 1kΩ
P	0 to 10Vdc	more than 2kΩ
R	±10Vdc	more than 2kΩ
S	Contact us for other than the above	
*1	Current output less than 20mA Voltage output less than 10V	

Applicable Directive (89/336/EEC)
EMI EN61000-6-4
EMS EN61000-6-2
Low voltage directive (73/23/EEC)
EN61010-1

- *1...CE approval do not adapt input range code 99 and output range code S.
- *2...If do not use CE approval type, accept power source range 10.8 to 26.4Vdc.

Specifications

Accuracy	±0.1% FS (at 23°C)
Response time	Approx. 25ms (0 to 90%)
Allowable load resistance	Current output First output : 15V or less of voltage drop between output Second output : 7V or less of voltage drop between output Voltage output Load current 5mA or less For less than 1V FS of output the current is 1μA or less
Zero & span adjustment	±5% FS (1 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
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	Approx. 4.5VA (AC), Approx. 100mA (24Vdc)
Power supply variation	±0.1% FS (within the range of rated voltage)
Dimension	84(H) X 29.5(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)
Mounting	DIN rail or wall surface

Terminal Connections

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