



This plug-in, high-speed response type converter (isolator) provides 2 signal outputs which are mutually isolated between input, output and power-supply. It amplifies and converts various kinds of signal with isolation to use in the integrated instrumental control system. It is highly effective as noise countermeasures.

## Features

- ★ High-speed Response time 500 $\mu$ s
- ★ Fine zero & span adjustment by 25 turn trimmer
- ★ Safe design by dielectric strength of 3000Vac
- ★ CE approved
- ★ Easy maintenance by plug-in structure

## Ordering code

WAP- **DEW** - [ ] [ ] [ ] [ ] - [ ]

Code	Input	Input Resistance
10	0 to 10mVdc	1M $\Omega$
11	0 to 100mVdc	1M $\Omega$
12	0 to 1Vdc	1M $\Omega$
13	0 to 5Vdc	1M $\Omega$
14	1 to 5Vdc	1M $\Omega$
15	0 to 10Vdc	1M $\Omega$
16	0 to 50mVdc	1M $\Omega$
17	0 to 60mVdc	1M $\Omega$
23	$\pm$ 1Vdc	1M $\Omega$
24	$\pm$ 5Vdc	1M $\Omega$
25	$\pm$ 10Vdc	1M $\Omega$
31	0 to 100 $\mu$ Adc	100 $\Omega$
32	0 to 1mAdc	100 $\Omega$
33	0 to 10mAdc	50 $\Omega$
34	0 to 16mAdc	50 $\Omega$
35	0 to 20mAdc	50 $\Omega$
36	4 to 20mAdc	50 $\Omega$
56	4 to 20mAdc	250 $\Omega$
57	10 to 50mAdc	100 $\Omega$
99	Contact us for other than the above Full Scale Range: Current input $\pm$ 50mA Span : 10 $\mu$ A to 100mA Voltage input $\pm$ 300V Span : 10mV to 600V	

Code	Output 1	Allowable Load
A	4 to 20mAdc	750 $\Omega$ or less
B	1 to 5mAdc	3k $\Omega$ or less
C	2 to 10mAdc	1.5k $\Omega$ or less
D	0 to 1mAdc	15k $\Omega$ or less
E	0 to 10mAdc	1.5k $\Omega$ or less
F	0 to 16mAdc	937 $\Omega$ or less
G	0 to 20mAdc	750 $\Omega$ or less
H	1 to 5Vdc	2.5k $\Omega$ or more
J	0 to 10mVdc	10k $\Omega$ or more
K	0 to 100mVdc	100k $\Omega$ or more
L	0 to 1Vdc	500 $\Omega$ or more
N	0 to 5Vdc	2.5k $\Omega$ or more
P	0 to 10Vdc	5k $\Omega$ or more
R	$\pm$ 10Vdc	5k $\Omega$ or more
S	Contact us for other than the above Current output 20mA or less Voltage output 10V or less	

Code	Power Supply
1	100Vac $\pm$ 10% 50/60Hz
2	200Vac $\pm$ 10% 50/60Hz
3	24Vdc $\pm$ 10%
4	110Vac $\pm$ 10% 50/60Hz
5	220Vdc $\pm$ 10% 50/60Hz
8	110Vdc $\pm$ 10%

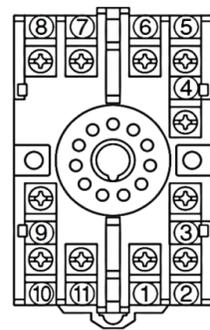
Code	Output 2	Allowable Load
A	4 to 20mAdc	350 $\Omega$ or less
H	1 to 5Vdc	1k $\Omega$ or more
N	0 to 5Vdc	1k $\Omega$ or more
P	0 to 10Vdc	2k $\Omega$ or more
AR	20 to 4mAdc	300 $\Omega$ or less
HR	5 to 1Vdc	2.5k $\Omega$ or more
NR	5 to 0Vdc	2.5k $\Omega$ or more
PR	10 to 0Vdc	5k $\Omega$ or more
S	Contact us for other than the above Current output 20mA or less Voltage output 10V or less	

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

## Specifications

<b>Accuracy</b>	$\pm$ 0.1% FS (at 23°C)
<b>Response time</b>	Approx. 500 $\mu$ s (0 to 90%)
<b>Allowable load resistance</b>	Current output Output 1 : 15V or less of voltage drop between output Output 2 : 11V or less of voltage drop between output Voltage output Load current 2mA or less *1mA or less if the output is 1V FS *1 $\mu$ A or less if the output is less than 1V FS
<b>Zero &amp; span adjustment</b>	$\pm$ 20% FS (25 turn trimmer)
<b>Operating temperature</b>	-5 to +60°C
<b>Storage temperature</b>	-10 to +70°C
<b>Operating relative humidity</b>	90% or less (non-condensing)
<b>Temperature coefficient</b>	$\pm$ 0.015% FS of span per °C
<b>Isolation</b>	Between input, output, and power supply
<b>Insulation resistance</b>	100M $\Omega$ or more with a 500Vdc megger Between input, output, and power supply terminal
<b>Dielectric strength</b>	3000Vac for 1 minute between power supply and input/output terminal, 2000Vac for 1 minute between input and output terminal
<b>Power consumption</b>	Approx. 4.4VA (AC), Approx. 100mA (DC)
<b>Dimensions</b>	90(H) X 51(W) X 136(D)mm
<b>Weight</b>	Approx. 240g
<b>Structure</b>	Plug-in
<b>Connection</b>	M3.5 SEMS screw part of the base socket (Tightening torque 0.8N·m)
<b>Material of terminal screw</b>	Chromated iron
<b>Mounting</b>	DIN rail or wall surface
<b>Case color and material</b>	Ivory, ABS resin, flame retardant grade UL94V-0
<b>EMC directive</b>	EN61326-1, EN61010-1, EN50581 Installation category : II, Pollution degree : 2
<b>Rated altitude</b>	2000m or less

## Terminal connections



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

\* Specification is subject to change without notice