

This converter comes in handy when input and output signals need to be placed in a mutually inverse relationship. For example, as the input signal increases from 4 mA to 20 mA, the unit can work to conversely reduce the output signal from 20 mA to 4 mA. Its input and output can be isolated using photocoupler method.

Features

- A wide range of I/O specifications capable of supporting diverse applications.
- Input and output can be isolated from each other using the highly reliable photocoupler method.
- Plug-in design enables mounting on DIN rails or direct installation.

Model WVP - ☐ ☐ ☐ ☐

LM	Non-isolated; Response time 200 msec (0-90%)
LS	Isolated; Response time 25 msec (0-90%)

Power Supply	
1	AC 100 V \pm 10%, 50/60 Hz
2	AC 200 V \pm 10%, 50/60 Hz
3	DC 24 V \pm 10%
4	AC 110 V \pm 10%, 50/60 Hz
5	AC 220 V \pm 10%, 50/60 Hz

Input Signal		
		Input Resistance
10	DC 0-10 mV	1 M Ω
11	DC 0-100 mV	1 M Ω
12	DC 0-1 V	1 M Ω
13	DC 0-5 V	1 M Ω
14	DC 1-5 V	1 M Ω
15	DC 0-10 V	1 M Ω
16	DC 0-50 mV	1 M Ω
17	DC 0-60 mV	1 M Ω
31	DC 0-100 μ A	100 Ω
32	DC 0-1 mA	100 Ω
33	DC 0-10 mA	50 Ω
34	DC 0-16 mA	50 Ω
35	DC 0-20 mA	50 Ω
36	DC 4-20 mA	50 Ω
99	Other than the above (Please consult with us.): Over 10 mV \cdot fs up to 300 V \cdot fs Over 10 μ A \cdot fs up to 20 mA \cdot fs	

Output Signal		
		Allowable Load Resistance
A	DC 4-20 mA	750 Ω or less
B	DC 1-5 mA	3 K Ω or less
C	DC 2-10 mA	1.5 K Ω or less
D	DC 0-1 mA	15 K Ω or less
E	DC 0-10 mA	1.5 K Ω or less
F	DC 0-16 mA	937 Ω or less
G	DC 0-20 mA	750 Ω or less
H	DC 1-5 V	2.5 K Ω or more
J	DC 0-10 mV	10 K Ω or more
K	DC 0-100 mV	100 K Ω or more
L	DC 0-1 V	500 Ω or more
N	DC 0-5 V	2.5 K Ω or more
P	DC 0-10 V	5 K Ω or more
S	Other than the above (Please consult with us.): Voltage output 10 V or less Current output 20 mA or less	

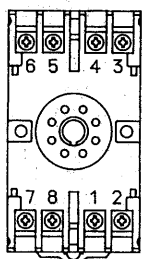
Specification

Input signal:	DC voltage, DC current
Output signal:	DC voltage, DC current
Accuracy:	$\pm 0.1\% \cdot fs$ (at 23°C)
Allowable load resistance:	For voltage output, use the converter with a load current of 2 mA or less (1 μ A or less for an output below 1 V \cdot fs). For current output, use the converter with a voltage drop of 15 V or less between output terminals.
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	$\pm 0.2\% \cdot fs/10^\circ C$
Insulation resistance:	100 M Ω or more with a 500 VDC megger between the input/output terminal and power supply terminal, and between the input and output terminals (isolated type)
Dielectric strength:	2,000 VAC for 1 minute between the input and output terminals (isolated type), and between the input/output terminal and power supply terminal
Power consumption:	Approx. 4 VA (AC), approx. 120 mA (DC)
Zero & span adjustment:	$\pm 20\% \cdot fs$ each (multi-turn trimmer)

Major Applications

- Calibrating in an inverse relationship to detected analog values.
- Configuration of a fail-safe circuit or subtraction circuit.
- Use in other cases where control signals inverse to measured signals are required.

Explanation of Terminals



No.	Symbol	Description
1	OUTPUT	+
2		-
3	INPUT	+
4		-
5		N.C.
6		N.C.
7	POWER	U (+)
8		V (-)