50 (W) x 96 (H) x 125.5 (D) mm   Approx. 400 g

This unit amplifies and level-converts a wide range of DC signals derived from various types of sensors and control devices into signals that can be handled in a standardized manner in measurement control systems. The unit allows you to choose from its many outputs the optimum one for a centralized monitoring board or measurement control device, such as a computer. It also provides an effective means for standardizing signal levels and transmission. This signal converter features a compact plug-in design, is easy to handle, and offers outstanding cost performance.

Features

– A wide range of I/O specifications capable of supporting diverse signal levels.
– Highly reliable design that is hardly affected by signal source resistance and receiving resistance.
– Plug-in design to enable mounting on DIN rails or direct installation.

Model   WVP - ☐☐ - ☐☐ ☐ - ☐

DC	Converter (non-isolated)

Input Signal

	Input Signal	Input Resistance
10	DC 0–10 mV	1 MΩ
11	DC 0–100 mV	1 MΩ
12	DC 0–1 V	1 MΩ
13	DC 0–5 V	1 MΩ
14	DC 1–5 V	1 MΩ
15	DC 0–10 V	1 MΩ
16	DC 0–50 mV	1 MΩ
17	DC 0–60 mV	1 MΩ
20	DC ± 10 mV	1 MΩ
21	DC ± 50 mV	1 MΩ
22	DC ± 100 mV	1 MΩ
23	DC ± 1 V	1 MΩ
24	DC ± 5 V	1 MΩ
25	DC ± 10 V	1 MΩ
30	DC 0–10 µA	1 KΩ
31	DC 0–100 µA	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
40	DC ± 1 mA	100 Ω
41	DC ± 20 mA	50 Ω
99	Other than the above (Please consult with us.): Over 10 mV·fs up to 300 V·fs Over 10 µA·fs up to 20 mA·fs	

Power Supply

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

Output Signal

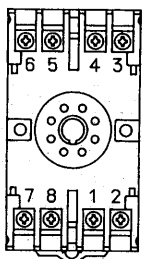|	Output Signal	Allowable Load Resistance
A	DC 4–20 mA	750 Ω or less
B	DC 1–5 mA	3 KΩ or less
C	DC 2–10 mA	1.5 KΩ or less
D	DC 0–1 mA	15 KΩ or less
E	DC 0–10 mA	1.5 KΩ or less
F	DC 0–16 mA	937 Ω or less
G	DC 0–20 mA	750 Ω or less
H	DC 1–5 V	2.5 KΩ or more
J	DC 0–10 mV	10 KΩ or more
K	DC 0–100 mV	100 KΩ or more
L	DC 0–1 V	500 Ω or more
N	DC 0–5 V	2.5 KΩ or more
P	DC 0–10 V	5 KΩ or more
R	DC ± 10 V	5 KΩ 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:	±0.1%·fs (at 23°C)
Allowable load resistance:	For voltage output, use the converter with a load current of 2 mA or less (1 μA or less for an output below 1 V·fs). For current output, use the converter with a voltage drop of 15 V or less between output terminals.
Response time:	0.2 sec (0–90%)
Zero & span adjustment:	±20%·fs each (multi-turn trimmer)
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	±0.2%·fs/10°C
Insulation resistance:	100 MΩ or more with a 500 VDC megger between input/output terminal and power supply terminal
Dielectric strength:	2,000 VAC for 1 minute between input/output terminal and power supply terminal
Power consumption:	Approx. 4 VA (AC), Approx. 120 mA (DC)

Major Applications

– Level standardization of sensor signals for pressure, flow rate, water level, temperature, etc.
– Protection against infiltration of external noise in signal transmission.

Explanation of Terminals

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