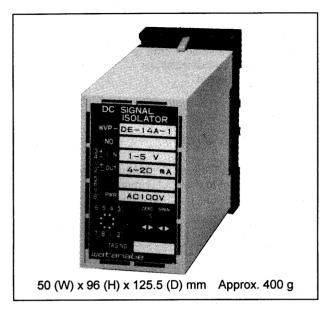
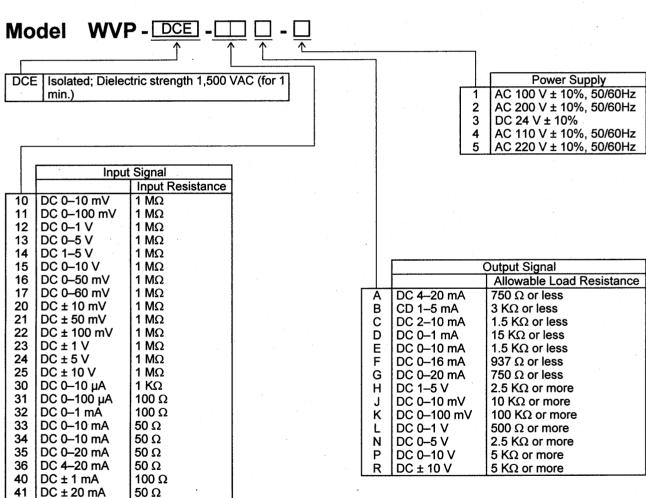
HIGH RESPONSE ISOLATOR (DC SIGNAL ISOLATOR) DIELECTRIC STRENGTH 1,500 VAC WVP-DCE



This plug-in high speed isolator isolates analog signals through the use of the pulse-width photocoupler method. It not only isolates signals of various levels from other circuits, but converts them into easy-to-handle signals for output to or input from measurement control devices. It also provides an effective means for achieving noise immunity and the standardization of signal levels.

Features

- Implements a step response of 500 µsec (0-90%).
- Plug-in design. Mounted on DIN rails using a one-touch process.
 - * If the output of a DC-power-supply type of this unit is going to be coupled to an A/D converter, use a dual-slope-integration type A/D converter. If you plan to use a successive approximation-type A/D converter, please inquire in advance.



Specification

Input signal:

DC voltage, DC current

Output signal:

DC voltage, DC current

Accuracy:

±0.2% · fs (at 23°C)

Allowable load resistance:

For voltage output, use the isolator 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 isolator with a voltage drop of 15 V or less (10 V or

less for an output over 20 mA) between output terminals.

Response time:

500 µsec (time to reach 90% of the final value)

Frequency response:

800 Hz (-3 dB) Zero: -20 to +20% · fs

Adjustable ranges:

Span: 80 to 120% · fs

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 M Ω or more with a 500 VDC megger between the input/output terminal and

power supply terminal, and between input and output terminals

Dielectric strength:

1,500 VAC for 1 minute between input, output and power supply terminals

Power consumption:

Approx. 4 VA (AC), Approx. 120 mA (DC)

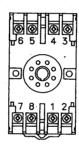
Major Applications

Isolation of sampling signals and real-time measurement signals.

Isolation of control signals for rotating machines and stationary machines in motor circuits.

Protection of equipment from external noise.

Explanation of Terminals



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