# §Small-sized plug-in transducer§

2-output type

Ultrahigh speed isolator

FWUS

## Application

Insulates various kinds of DC signals and converts them into a unified intersystem signal. With input and output insulated, the product offers full advantages in transmitting insulated signals between measuring systems, cutoff of noise, protecting a control circuit from a sneak current, and transmitting an output signal directly to a distant place. Also can be used as a high speed feedback signal (  $180~\mu~s/90\%$ ) in a control circuit. Because this transducer can extract two insulated outputs, control and monitor can be done by a single unit. Up to 16 units can be housed in an installation base. Keep in mind that because this device is high speed response, its ripple-removal ability is not as high as that of an isolator.



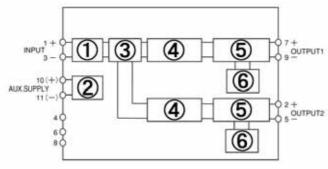
 $29.5 \times 76 \times 125 \text{mm} / 180 \text{g}$ 

### **Feature**

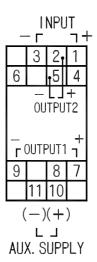
- 1. Withstand voltage between input and output is AC1, 500V (50/60Hz) for 1 min..
- 2. Withstand voltage between input/output/auxiliary supply/outer case is AC2, 000V (50/60Hz) for 1 min..
- 3. Withstand voltage between outputs is AC500V (50/60Hz) for 1 min..
- 4. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
- 5. A LED can confirm status of electric power applied.
- 6. Zero/span of 1st and 2nd output can be adjusted individually. (±2% adjustable)

### **Block Diagram**

# Connection diagram (socket)



Input filter
Insulated power source circuit
Input amplifying circuit
Capacitively-coupled isolation amplifier
Constant voltage/current
Reference voltage

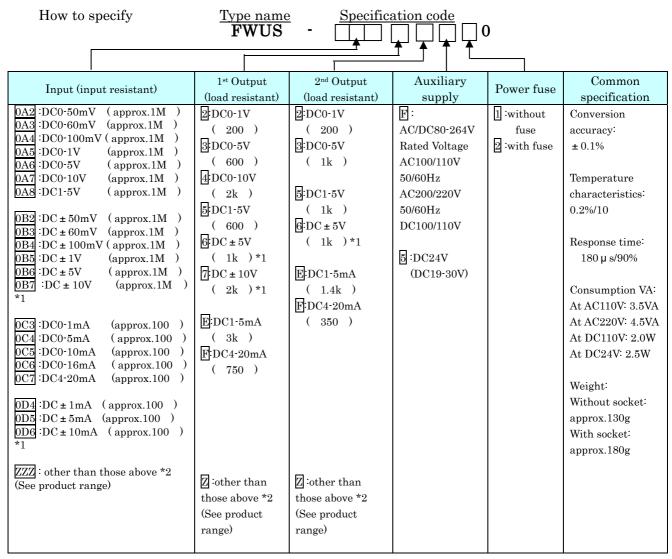


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## Specification



<sup>\*1</sup> Plus/minus output is the standard for plus/minus input.

### Product Range (including special handling)

Input	$1^{ m st}$ output	2 <sup>nd</sup> output
Current input: 10 µ A-50mA	Current output: -4-20mA,1-5mA only	Current output: 4-20mA,1-5mA only
Voltage input: 10mV-300V	Voltage output: -10V-10V(output span 1V)	Voltage output: -10V-10V

Current input: conversion accuracy, temperature characteristics and suchlike of an input more than  $10\mu A$  but less than  $499\mu A$  are different from standards. Voltage input: conversion accuracy, temperature characteristics and suchlike of an input more than 10mV but less than 49mV are different from standards. 2nd output: output more than 5.1V but less than 10V is subject to special handling. (Load current 2mA)

### UR-2 precise resistance unit (Selling separately)

Please use a UR-2 combined with an isolator of voltage input. When changing the isolator in a hot line state at the time of current input, if measures against open are necessary, connect UR-2 to socket and convert it into a voltage signal before using it. (UR-2, resistance to be specified) (Specify any one of  $10\Omega$ ,  $50\Omega$ ,  $62.5\Omega$ ,  $100\Omega$ ,  $250\Omega$ ,  $500\Omega$ ,  $1k\Omega$ )

<sup>\*2</sup> Consult with us for specification other than those indicated in the table above.