§Small-sized plug-in transducer§

2-output type

Application

Supplies electrical power to a 2-wire transmitter, receives a DC4-20mA signal from the transmitter, then insulates and outputs a proportional DC signal. 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.

Distributor FWDT



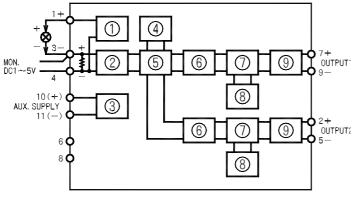
Feature

 $29.5 \times 76 \times 125$ mm/180g

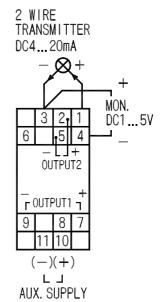
- 1. Compact and high withstand voltage.
- 2. Withstand voltage between input/output/auxiliary supply/outer case is AC2, 000V (50/60Hz) for 1 min..
- 3. Withstand voltage between outputs is AC500V (50/60Hz) for 1 min..
- 4. With distributing and signal converting function, this is a distributor for two-wire transmitter use.
- 5. With transmitter power source short-circuit protection (limited current 23-30mA).
- 6. A DC4-20mA signal from transmitter monitored as a DC 1-5V(\pm 0.1%) signal through socket (FW11) terminals 3-4.
- 7. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
- 8. A LED can confirm status of electric power applied.
- 9. Zero/span of 1st and 2nd output can be adjusted individually. (±2% adjustable)

Block Diagram

Connection diagram (socket)



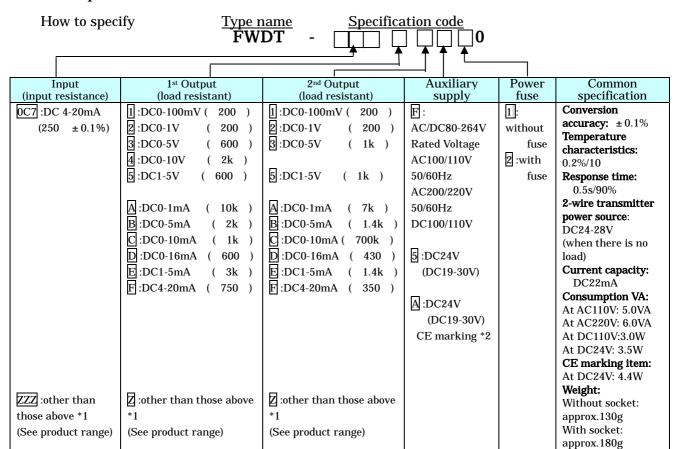
Power source circuit
Input amplifying circuit
Insulated power source circuit
Oscillating circuit
Pulse width modulation circuit
Photo coupler insulation
Pulse width demodulation circuit
Reference voltage
Output circuit



§Small-sized plug-in transducer§

2-output type Distributor

Specification



^{*1} Consult with us for specification other than those indicated in the table above.

Product Range (including special handling)

Input	1st Output	2 nd Output
Current input span: 12mA	Current output: 1mA-20mA	Current output: 1mA-20mA
Full input: MAX20mA	Voltage output: 10mV-10V	Voltage output: 10mV-10V

*2 CE marking compliant specifications

EMC compliant specifications Safety standardEMI (emission) EN61000-6-4 EN61010-1

EMS (immunity) EN61000-6-2 CAT , pollution degree: 2

Transmitter power source

In case that overcurrent which exceeds current capacity of incoming current/short-circuit is circulated in transmitter power source terminal, a built-in short-circuit protection circuit functions, supply voltage is lowered and supply current is limited to protect the distributor.

Line resistance (between transmitter and distributor)

Line resistance

19V (*) - MIN. operating voltage of transmitter

0.02A

(*) MIN. supply voltage (24V) - Internal voltage drop (5V) = $19\mathrm{V}$