INSULATION TYPE DISTRIBUTOR

DTP2 – C 1 □□

DTP2-C1F1
(80×50×121mm/650g)

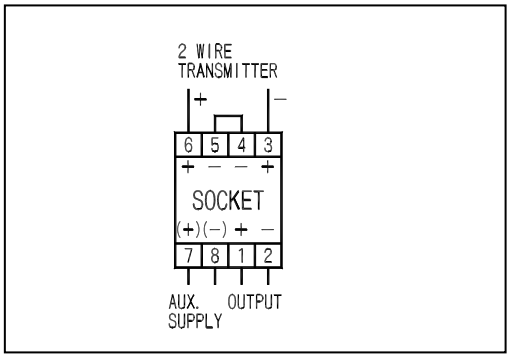
■ Use

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

■ Features

1. Equipped with functions both of a distributor and a signal exchanger, the transducer is for a 2-wire transmitter's use.
2. Short-circuit protection function for transmitter circuit (≦30mA) .
3. Supplies a 2-wire transmitter with a stable power source.
4. Impulse withstands voltage 5kV, 1.2/50μs (between electric circuit and outer case) positive/ negative polarity 3 times each is guaranteed.

■ Connection diagram



■ Specification

Input	Output (load resistance)	Auxiliary supply	Common specification
DC4-20mA (approx.100Ω)	1 : DC0-100mV (≧200Ω) 2 : DC0-1V (≧200Ω) 3 : DC0-5V (≧1kΩ) 4 : DC 0-10V (≧2kΩ) 5 : DC1-5V (≧1kΩ) A : DC0-1mA (≦10kΩ) B : DC0-5mA (≦2kΩ) C : DC0-10mA (≦1kΩ) D : DC0-16mA (≦600Ω) E : DC1-5mA (≦3kΩ) F : DC4-20mA (≦750Ω) 0 : other than those above	1 : AC100V±10%, 50/60Hz 2 : AC110V±10%, 50/60Hz 3 : AC200V±10%, 50/60Hz 4 : AC220V±10%, 50/60Hz 0 : other than those above DC power source is not manufacturable.	2-wire transmitter power source: DC24-28V (when there is no load) Current capacity: DC22mA MAX Tolerance: ±0.25% Response time: ≦0.5sec./99% Weight: 650g Consumption VA: 5VA

● Built-in ripple filter

Even if a ripple of single-phase AC full rectification wave (50/60Hz) degree is included in input wave, it still converts the wave into a smoothed DC signal.

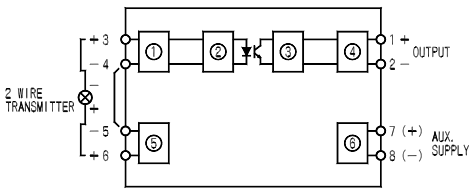
● Withstand voltage

Between input/output/power source:
AC2, 000V for 1 min,
Between electric circuit and outer case:
AC2, 000V for 1 min,

● Insulation resistance

Between input/output/power source:
≧50MΩ (at DC500V)
Between electric circuit and outer case:
≧50MΩ (at DC500V)

■ Block diagram



①Input circuit
②Pulse width modulation circuit
③Pulse width demodulation circuit
④Output circuit
⑤Power source circuit
⑥Insulated power source circuit

■ Purchase specifications

●Item to specify

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F: Output
1: Auxiliary supply