# § PLUG-IN TRANSDUCER § 1 OUTPUT TYPE

## SIGNAL TRANSDUCER

DITP1-C7F5

 $(80 \times 50 \times 121 \text{mm}/350\text{g})$ 

### DIVIDING TRANSDUCER

## DITP1 -

### Use

Divides two DC signals and outputs a DC signal equivalent to the product.

### Features

- 1. Constant voltage/current output.
- Withstand voltage between electric circuit and outer case, and between input/output and auxiliary supply are AC1, 500V (50/60Hz) for 1 minute, or between input and output is AC1, 500V (50/60Hz) for 1 minute.
- 3. There is no regulation when input Y is less than or equal to 20%.
- 4.  $\bigcirc$  of Input X and Y are conducted inside the device.
- 5. Plus/minus input is not manufacturable.
- 6. Impulse withstands voltage 5kV, 1.2/50µs (between electric circuit and outer case), and positive/negative polarity 3 times each is guaranteed.

Input (input resistance or voltage drop)		Output (load resistance)	Auxiliary supply	Common specification
1: DC0-10mV (approx.1MQ)   12: DC0-50mV (approx.1MQ)   13: DC0-60mV (approx.1MQ)   14: DC0-100mV (approx.1MQ)   15: DC0-1V (approx.1MQ)   16: DC0-5V (approx.1MQ)   16: DC0-5V (approx.1MQ)   17: DC0-10V (approx.1MQ)   18: DC1-5V (approx.1MQ)   19: DC1-5V (approx.1MQ)	C1 : DC0-10 µ A (100mV) *1   C2 : DC0-100 µ A (100mV)   C3 : DC0-1mA (approx.100Ω)   C4 : DC0-10mA (approx.100Ω)   C5 : DC0-10mA (approx.100Ω)   C6 : DC0-16mA (approx.100Ω)   C7 : DC4-20mA (approx.100Ω)   00 : other than those above	I: DC0-100mV ( 200 )   2: DC0-1V ( 200 )   3: DC0-5V ( 1k )   4: DC 0-10V ( 2k )   5: DC1-5V ( 1k )   A: DC0-1mA ( 10k )   B: DC0-5mA( 2k )   C: DC0-10mA ( 1k )   D: DC0-16mA ( 600 )   E: DC1-5mA ( 3k )   F: DC4-20mA ( 750 )   O: other than those above	1: AC100V±10%,   50/60Hz   2: AC110V±10%,   50/60Hz   3: AC200V±10%,   50/60Hz   4: AC220V±10%,   50/60Hz   5: DC24V±10%,   6: DC48V±10%,   0: other than those above	Tolerance: ± 0.25% *2 Response time: 0.5sec./99% Consumption VA: AC power source:4VA DC power source:4W Weight: AC power source:700g DC power source:350g

\*1. Circuit voltage 15V for an input of 10 µ A. \*2. Tolerance becomes ±0.5% when input voltage is less than 50mV; input current is less than 100µA. Open of current output: even if the current output terminal is used in a state of regular open, there is no problem. Also, a voltage of approx. 25V occurs on the output terminal. \*3. Please specify the identical input X and Y.

UR-1 precise resistance unit (selling separately)

Please use a UR-1 combined with a dividing transducer of voltage input. When changing the dividing transducer in a hot line state at the time of current input, if measures against open are necessary, connect UR-1 to socket and convert it into a voltage signal before using it. (UR-1, the resistance specified)

#### Operational expression

Input: IB~IM Output: OB~OM O=(<u>XI-IB</u>)/(<u>YI-IB</u>) × (OM-OB)+OB IB: Min. input value. IM: Max. input value. OB: Min. output value. OM: Max. output value. XI: Input X YI: Input Y O: Output value. Input/output relationship graph Block diagram

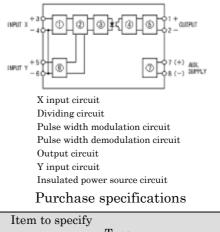
DIVIDER

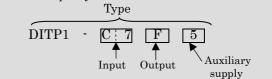
Connection diagram

INPUT Y INPUT X

SOCKE1

Indicated in () are the polarities in the case of DC auxiliary supply.





⊖ DAIICHI ELECTRONICS CO., LTD. http://www.daiichi-ele.co.jp

Transducer Catalog e-98-099b