

ADDING/SUBTRACTING TRANSDUCER

CADTP1 - □ □ □

Use

A transducer does adding and subtracting of 3 inputs. By a programming unit (CCM-1), it is possible to change a parameter or output a simulated output for a loop test.

Features

1. Constant voltage/current output.
2. Withstand voltage between electric circuit and outer case  
AC2, 000V (50/60Hz), AC1, 500V (50/60Hz) for 1 minute between input/output and auxiliary supply, or AC1, 500V (50/60Hz) for 1 minute between input and output.
3. Plus/minus input/output is not manufacturable.
4. Impulse withstands voltage 5kV, 1.2/50µs (between electric circuit and outer case), and positive/ negative polarity 3 times each is guaranteed.

Specification

Input (input resistance)	Output (load resistance)	Auxiliary supply	Common specification
<b>AS</b> : DC1-5V (approx.1M ) <b>C7</b> : DC4-20mA (approx.100 ) <b>00</b> : other than those above	<b>1</b> : DC0-100mV ( 200 ) <b>2</b> : DC0-1V ( 200 ) <b>3</b> : DC0-5V ( 1k ) <b>4</b> : DC 0-10V ( 2k ) <b>5</b> : DC1-5V ( 1k ) <b>A</b> : DC0-1mA ( 12k ) <b>B</b> : DC0-5mA ( 2.4k ) <b>C</b> : DC0-10mA ( 1.2k ) <b>D</b> : DC0-16mA ( 750 ) <b>E</b> : DC1-5mA ( 3k ) <b>F</b> : DC4-20mA ( 750 ) <b>H</b> : DC4-20mA ( 800 ) DC1-5V ( 250k ) SW switching <b>0</b> : other than those above	<b>1</b> : AC100V(+10%, -15%),50/60Hz <b>2</b> : AC110V(+10%, -15%),50/60Hz <b>3</b> : AC200V(+10%, -15%) 50/60Hz <b>4</b> : AC220V(+10%, -15%), 50/60Hz <b>5</b> : DC24V(+10%, -15%) <b>0</b> : other than those above	Tolerance (when gain is 1): ± 0.25% Consumption VA: AC power source:2.5VA DC power source:3.0W Weight: AC power source:500g DC power source:400g

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.

Operational expression

Input:  $X_1-X_3$  (0-100%)

Output:  $X_0$  (0-100%)

Operational expression:

$$X_0 = K_0 \{ K_1 (X_1 + A_1) + K_2 (X_2 + A_2) + K_3 (X_3 + A_3) \} + A_0$$

Gain:  $K_0-K_3$  (±29.99%)

Bias:  $A_0-A_3$  (±299.99%)

Factory preset

Products are shipped in the following setting.  
 (Can be changed by specification)

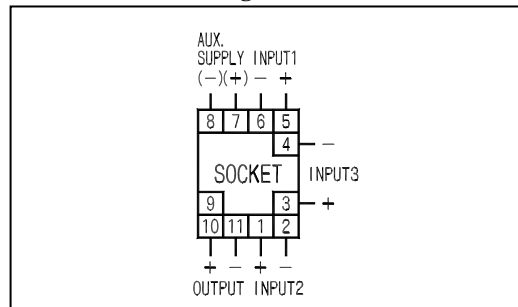
PARAMETER	
NO.	DATA
A <sub>1</sub>	0.0%
A <sub>2</sub>	0.0%
A <sub>3</sub>	0.0%
A <sub>0</sub>	0.0%
K <sub>1</sub>	0.5
K <sub>2</sub>	0.3
K <sub>3</sub>	0.2
K <sub>0</sub>	1.0



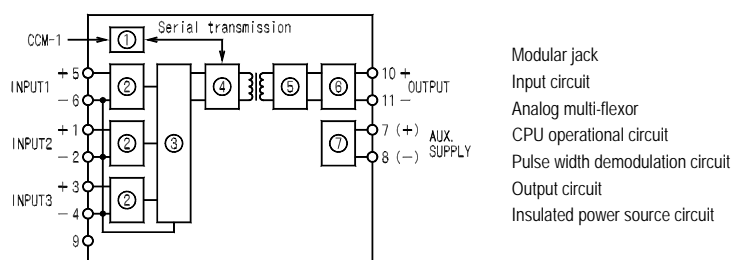
CADTP1-C7H1

(80 × 50 × 133mm/500g)

Connection diagram



Block diagram



Purchase specifications

