ANALOG MEMORY

AMTP - ☐ ☐ ☐ ☐

AMTP-C7F5

(80× 50× 121mm/650g)

Use

Amplifies various kinds of DC signals and converts them into a unified intersystem signal. By ON OFF operation between HOLD terminals, the device can hold the output at that time on a permanent basis.

Features

1. Constant voltage/current output.
2. Withstand voltage between electric circuit and outer case is AC2, 000V (50/60Hz) for 1 minute, or between input/output and auxiliary supply is AC1, 500V (50/60Hz) for 1 minute. Non-insulated between input and output.
3. Impulse withstands voltage 5kV, 1.2/50μs (between electric circuit and outer case), and positive/negative polarity 3 times each is guaranteed.

Connection diagram

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

Specification

Input (input resistance or voltage drop)		Output (load resistance)	Auxiliary supply	Common specification
A1 : DC0-10mV (approx.1MΩ)	C1 : DC0-10μ A (100mV) *1	1 : DC0-100mV (200)	1 : AC100V±10%, 50/60Hz	Tolerance: ± 0.5% *2
A2 : DC0-50mV (approx.1MΩ)	C2 : DC0-100μ A (100mV)	2 : DC0-1V (200)	2 : AC110V±10%, 50/60Hz	Response time:
A3 : DC0-60mV (approx.1MΩ)	C3 : DC0-1mA (approx.100Ω)	3 : DC0-5V (1k)	3 : AC200V±10%, 50/60Hz	0.5sec./99%
A4 : DC0-100mV (approx.1MΩ)	C4 : DC0-5mA (approx.100Ω)	4 : DC 0-10V (2k)	4 : AC220V±10%, 50/60Hz	Consumption VA:
A5 : DC0-1V (approx.1MΩ)	C5 : DC0-10mA (approx.100Ω)	5 : DC1-5V (1k)	5 : DC24V±10%	AC power source:3VA
A6 : DC0-5V (approx.1MΩ)	C6 : DC0-16mA (approx.100Ω)	A : DC0-1mA (10k)	0 : other than	DC power source:4W
A7 : DC0-10V (approx.1MΩ)	C7 : DC4-20mA (approx.100Ω)	B : DC0-5mA (2k)	those above	Weight:
A8 : DC1-5V (approx.1MΩ)	D1 : DC± 10μ A (± 100mV)*1	C : DC0-10mA (1k)		AC power source:650g
B1 : DC± 10mV (approx.1MΩ)	D2 : DC± 100μ A (± 100mV)	D : DC0-16mA (600)		DC power source:300g
B2 : DC± 50mV (approx.1MΩ)	D3 : DC± 500μ A (± 100mV)	E : DC1-5mA (3k)		
B3 : DC± 60mV (approx.1MΩ)	D4 : DC± 1mA (approx.100Ω)	F : DC4-20mA (750)		
B4 : DC± 100mV (approx.1MΩ)	D5 : DC± 5mA (approx.100Ω)	0 : other than those above		
B5 : DC± 1V (approx.1MΩ)	D6 : DC± 10mA (approx.100Ω)			
B6 : DC± 5V (approx.1MΩ)	00 : other than those above			
B7 : DC± 10V (approx.1MΩ)				

*1. Circuit voltage 15V for an input of 10μ A.

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.
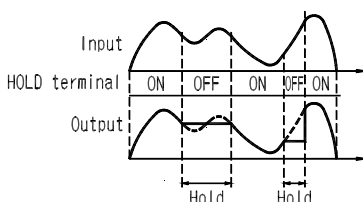
UR-1 precise resistance unit (selling separately)

Please use a UR-1 combined with an analog memory of voltage input. When changing the analog memory 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)
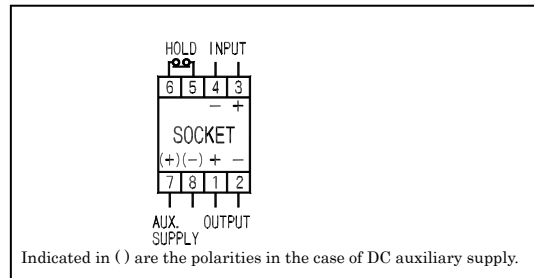
Limit setting method

Output becomes corresponding to input by turning HOLD terminal 5-6 ON, and it becomes HOLD output when HOLD terminal is turned OFF.

Use a no-voltage contact input for input of HOLD terminal. Also, output becomes indefinite if reset power source in memory state.
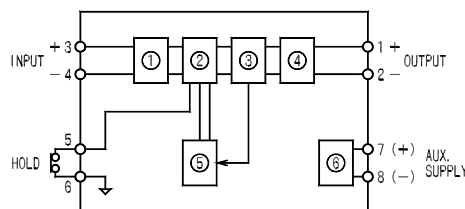

Block diagram

Input circuit
Counter
DA converter
Output circuit
Comparator
Insulated power source circuit

Purchase specifications

Item to specify

Type

AMTP - C 7 F 5

Input   Output   Auxiliary supply