50 (W) x 96 (H) x 125.5 (D) mm   Approx. 400 g

This is a plug-in converter that receives two analog input signals, and delivers a signal that is proportional to their mean value.
It provides a convenient means of monitoring a state based on the average of two changing signals.
The ARS model has its input, output, and power supply isolated from each other; however, its input signals are not mutually isolated.

Features

- Highly reliable design that is hardly affected by signal source resistance or receiving resistance.
- High-speed response, with a 25 msec response time.
- The ABS model has a dielectric strength of 2,000 VAC between its input and output signals.
- Plug-in design facilitates system installation and maintenance.

Major Applications

- Measurement of average flow rate.
- Monitoring of average temperature.

Model   WVP - ☐☐☐ - ☐☐☐ - ☐

ARS	Isolated type

	Power Supply
1	AC 100 V ± 10%, 50/60 Hz
2	AC 200 V ± 10%, 50/60 Hz
3	DC 24 V ± 10%
4	AC 110 V ± 10%, 50/60 Hz
5	AC 220 V ± 10%, 50/60 Hz

Input Signal		
		Input Resistance
11	DC 0–100 mV	1 MΩ
12	DC 0–1 V	1 MΩ
13	DC 0–5 V	1 MΩ
14	DC 1–5 V	1 MΩ
15	DC 0–10 V	1 MΩ
32	DC 0–1 mA	100 Ω
33	DC 0–10 mA	50 Ω
34	DC 0–16 mA	50 Ω
35	DC 0–20 mA	50 Ω
36	DC 4–20 mA	50 Ω
99	Other than the above (Please consult with us.): Over 10 mV·fs up to 300 V·fs Over 10 μA·fs up to 20 mA·fs	

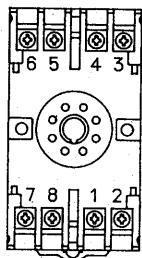| Output Signal		
		Allowable Load Resistance
A	DC 4–20 mA	750 Ω or less
B	DC 1–5 mA	3 KΩ or less
C	DC 2–10 mA	1.5 KΩ or less
D	DC 0–1 mA	15 KΩ or less
E	DC 0–10 mA	1.5 KΩ or less
F	DC 0–16 mA	937 Ω or less
G	DC 0–20 mA	750 Ω or less
H	DC 1–5 V	2.5 KΩ or more
J	DC 0–10 mA	10 KΩ or more
K	DC 0–100 mA	100 KΩ or more
L	DC 0–1 V	500 Ω or more
N	DC 0–5 V	2.5 KΩ or more
P	DC 0–10 V	5 KΩ or more
S	Other than the above (Please consult with us.): Voltage output 10 V or less Current output 20 mA or less	

Specification

Input signal:	DC voltage, DC current
Output signal:	DC voltage, DC current
Number of input signals:	2
Number of output signals:	1
Accuracy:	±0.1%·fs (at 23°C)
Allowable load resistance:	For voltage output, use the unit with a load current of 2 mA or less (1 µA for an output below 1 V·fs). For current output, use the unit with a voltage drop of 15 V or less between output terminals.
Response time:	25 msec (time needed to reach 90% of the final value)
Zero & span adjustment:	±20%·fs each (multi-turn trimmer)
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	±0.2%·fs/10°C
Insulation resistance:	100 MΩ or more with a 500 VDC megger between the input/output terminal and power supply terminal, and between the input and output terminals (isolated type)
Dielectric strength:	2,000 VAC for 1 minute between the input and output terminals (isolated type), and between the input/output terminal and power supply terminal
Power consumption:	Approx. 4 VA (AC), approx. 120 mA (DC)

Operation Expression

$$C = \frac{(A + B)}{2}$$

Where C = Output signal
A = Input signal
B = Input signal

Explanation of Terminals

No.	Symbol		Description
1	OUTPUT	+	Output signal
2		-	
3	INPUT (A)	+	Input signal (A)
4		-	
5	INPUT (B)	+	Input signal (B)
6		-	
7	POWER	U (+)	Power supply
8		V (-)	