

WAP-DB (Non-isolated Distributor)



This plug-in signal converter (distributor) supplies the specified DC power to the on-site 2-wire transmitter through signal lines and converts the integrated signal (4 to 20 mA) output from the transmitter to a signal suitable for the input to the monitoring/control equipment.

Features

- ★ Provided with two pairs of output signal terminals per input.
- ★ Does not deliver signals in excess of approximately 25mA, even in case the output is short-circuited.
- ★ Easy maintain at plug-in structure.

Model Code

WAP - DB- ☐ ☐ ☐ - ☐

① ② ③

①Power source

Code	Power supply
20	100Vac $\pm 10\%$ 50/60Hz
21	200Vac $\pm 10\%$ 50/60Hz
22	110Vac $\pm 10\%$ 50/60Hz
23	220Vac $\pm 10\%$ 50/60Hz

*Code 22 & 23 discontinued

③Output

Code	First Output	Second Output
	Between Terminals Nos. 3 and 4	Between Terminals Nos. 5 and 6
A	DC 1 to 5V	DC 1 to 5V
H	DC 4 to 20mA	DC 4 to 20mA
H	DC 1 to 5V	DC 4 to 20mA

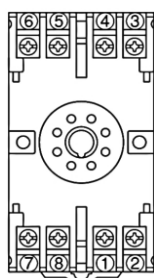
②Power source for the Transmitter

Code	Transmitter Power supply
A	DC24V ± 1 V max. 25mA

Specification

Transmitter signal	4 to 20mA _{dc} (input resistance 250 Ω)
Output signal:	1 to 5V _{dc} or 4 to 20 mA _{dc} (Number of outputs : 2)
Accuracy:	$\pm 0.1\%$ FS (at 23°C)
Output Voltage	24V _{dc} ± 1 V (for the Transmitter)
Influence of load variation:	Output voltage variation less than 2%
Output Current:	Max. 22mA
Output ripple	10mV _{p-p} or less
Operating temperature	-5 to +60°C 90%RH or less (no condensation)
Insulation resistance:	100M Ω or more with a 500V _{dc} megger between input and outputs and power supply terminal
Dielectric strength:	2000Vac for 1 minute between input and outputs and power supply terminal
Power consumption:	Approx 3VA
Influence of supply voltage:	$\pm 0.1\%$ FS / rated voltage $\pm 10\%$
Dimension:	97(H) X 51(W) X 126(D)mm
Weight:	Approx 400g
Structure:	Plug-in
Connection part:	M3 SEMS screw part of the base socket
Material of terminal screw:	Chromated iron
Case color and material:	Ivory, heat-resistant ABS resin(94V-0)
Mounting:	DIN rail or wall surface

Terminal Connection:



No	Symbol		Description
1	TRANSMITTER	+	TRANSMITTER
2		-	
3	No1 OUTPUT	+	No1 OUTPUT
4		-	
5	No2 OUTPUT	+	No2 OUTPUT
6		-	
7	POWER	U(+)	Power Source
8		V(-)	