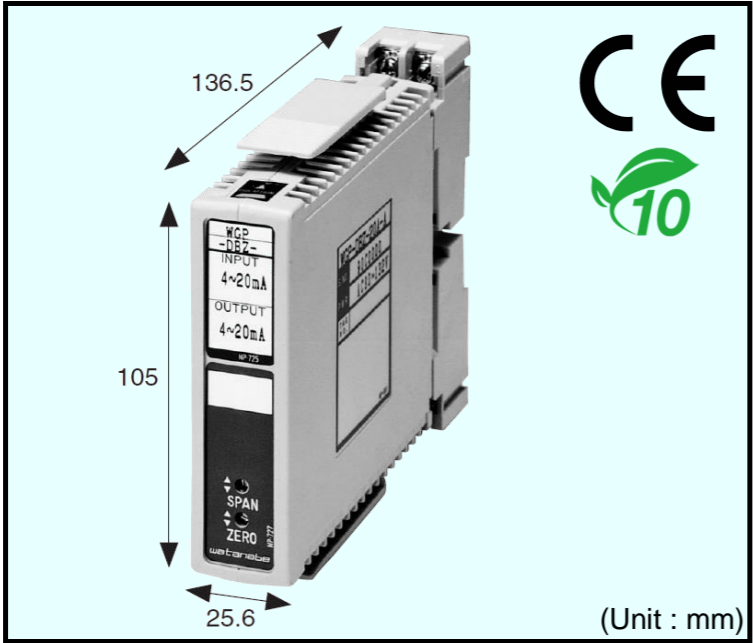


Isolated Distributor (Current Loop Supply)

WGP-DBZ / DBT



This compact plug-in signal converter (distributor) with output supplies 24Vdc to the 2-wire transmitter through signal lines and converts the signals (4 to 20 mA<sub>dc</sub>) to the DC voltage or current output for the input to the monitoring/control equipment. And also provides isolation between the signal input, output, and power supply. Model WSP-DBT is compatible with smart transmitter.

Features

- ★ Dielectric strength of 2000Vac between input, output and power supply
- ★ Both AC and DC power supply are available
- ★ Accuracy at 0.1% FS, Response time 25ms
- ★ Easy to maintain by plug-in structure
- ★ 2 outputs
- ★ High vibration tolerance

Ordering code

WGP- - A -

Code	Model
DBZ	Isolated current loop supply (Distributor)
DBT	Isolated current loop supply (Distributor) (compatible with smart transmitter)

Code	Transmitter Voltage
A	24Vdc supply

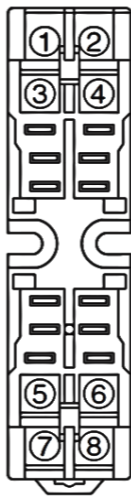
Code	Power Supply
10	80 to 132Vac 50/60Hz Rated voltage : 100 to 120V ±10%
20	170 to 264Vac 50/60Hz Rated voltage : 200 to 240V ±10%
24	24Vdc ±10%
48	48Vdc ±10%
50	110Vdc ±10%

Code	Output	Allowable Load
A	4 to 20mA <sub>dc</sub>	750Ω or less
B	1 to 5mA <sub>dc</sub>	3kΩ or less
C	2 to 10mA <sub>dc</sub>	1.5kΩ or less
D	0 to 1mA <sub>dc</sub>	15kΩ or less
E	0 to 10mA <sub>dc</sub>	1.5kΩ or less
F	0 to 16mA <sub>dc</sub>	937Ω or less
G	0 to 20mA <sub>dc</sub>	750Ω or less
H	1 to 5Vdc	2.5kΩ or more
J	0 to 10mVdc	10kΩ or more
K	0 to 100mVdc	100kΩ or more
L	0 to 1Vdc	250Ω or more
N	0 to 5Vdc	2.5kΩ or more
P	0 to 10Vdc	5kΩ or more
S * 1	Contact us for other than the above Current output 20mA or less Voltage output 10V or less	

Specifications

Input signal	4-20mA <sub>dc</sub> (Transmitter signal)
Output signal	DC current / voltage (2 outputs)
Accuracy	±0.1% FS (at 23°C)
Response time	Approx. 25ms ( 0 to 90%)
Allowable load resistance	4-20mA <sub>dc</sub> output : 2.5kΩ or more 1-5Vdc output : 750Ω or less
Zero & span adjustment	±10% FS (3 turn trimmer)
Transmitter voltage	24Vdc ±1V, max about 25mA
Influence of load variation	Variation of output voltage is 2% or less
Output current	DBZ : Max. 22mA, DBT : 40mA (Output ripple 300mVp-p or less)
Operating temperature	-5 to +55°C
Operating relative humidity	90% or less (non-condensing)
Zero & span adjustment	±0.015% FS of span per °C
Isolation	Between input, output, and power supply
Insulation resistance	100MΩ or more with a 500Vdc megger Between input, output, and power supply terminal
Dielectric strength	2000Vac for 1 minute
Power consumption	Approx. 6VA (AC), Approx. 110mA (DC)
Power supply variation	±0.1% FS (within the range of rated voltage)
Dimensions	105(H) X 25.6(W) X 136.5(D)mm
Weight	Approx. 200g
Structure	Plug-in
Connection	M3.5 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 connections



No	Signal	Description
1	No.2 OUTPUT(+)	No.2 Output
2	No.2 OUTPUT(-)	
3	TRANSMITTER(+)	Transmitter
4	TRANSMITTER(-)	
5	No.1 OUTPUT(+)	No.1 Output
6	No.1 OUTPUT(-)	
7	POWER U(+)	Power Supply
8	POWER V(-)	

\* Specification is subject to change without notice