

This slim-type plug-in converter accepts DC voltage or current input and provides isolated two pulse outputs. It amplifies and converts the selected DC input to the selected pulse outputs. And also provides isolation between the signal input, output, and power supply.

Features

- ★ Shutdown value can be set arbitrarily (1 to 10%fs)
- ★ High vibration tolerance
- ★ Maximum measurement frequency can be set arbitrarily
- ★ Dielectric strength of 2000Vac between input, output and power supply
- ★ Both AC and DC power supply are available
- ★ Accuracy at 0.1% FS
- ★ Easy to maintain by plug-in structure

Ordering code

WGP- **VFD** - **□□□□** - **□** Default output frequency **□** Hz FS (Full scale)

Code	Input	Input Resistance
10	0 to 10mVdc	1MΩ
11	0 to 100mVdc	1MΩ
12	0 to 1Vdc	1MΩ
13	0 to 5Vdc	1MΩ
14	1 to 5Vdc	1MΩ
15	0 to 10Vdc	1MΩ
16	0 to 50mVdc	1MΩ
17	0 to 60mVdc	1MΩ
30	0 to 10μAdc	1MΩ
31	0 to 100μAdc	1MΩ
32	0 to 1mAdc	1MΩ
33	0 to 10mAdc	1MΩ
34	0 to 16mAdc	1MΩ
35	0 to 20mAdc	1MΩ
36	4 to 20mAdc	1MΩ
99	Contact us for other than the above	
*1	Full Scale Range: Current input 10μA to 50mA Voltage input 10mV to 300V	

Code	Max. frequency
A	1kHz
B	10kHz
C	100kHz

Code	Power Supply
1	80 to 132Vac 50/60Hz Rated voltage : 100 to 120V
2	170 to 264Vac 50/60Hz Rated voltage : 200 to 240V
3	24Vdc ±10%
8	110Vdc ±10%

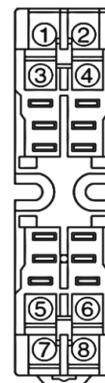
Code	Output	1st output	2nd output
E	One-shot non-contact output (for driving AC/DC electromagnetic counter) ON-time : 100msec	ON-voltage : 2V (max.) ON-current : 500mA or less Operating circuit voltage : 200VDC, 130 VAC or less	Voltage pulse output [1] : 12V [2] : 0.4V or less Internal resistance 5.1kΩ
F	DIP Switch Selection Open collector output	30VDC, 30mA or less ON-voltage : 0.4V or less	Voltage pulse output [1] : 12V [2] : 0.4V or less Internal resistance 5.1kΩ
		Voltage pulse output [1] : 5V or 12V (selected via DIP switches) [0] : 0.4V or less Internal resistance : 620Ω	
G	Non-voltage contact output	Rated control capacity 24Vdc, 0.1A (max.) 10mVdc, 10μA (min.) (AC power supply not available)	Voltage pulse output [1] : 12V [2] : 0.4V or less Internal resistance 5.1kΩ

Specifications

Accuracy	±0.1% FS (at 23°C)
Output frequency	A type : 0.003051757Hz FS to 1000Hz FS B type : 0.03051757Hz FS to 10kHz FS C type : 0.3051757Hz FS to 100kHz FS When output code is E type, max. frequency is 5Hz. $f_{out} = f_{max} \times M/10 / 2^n$ (1/1 ~ 1/327680) f_{out} : output frequency, f_{max} : max. frequency M : 1 ~ 10, N : 0 ~ 15
Response time	Input voltage 1V to 10V(FS) : 20μs + 1/ f_{out} Input current 20mA to 50mA(FS) : 20μs + 1/ f_{out} Other inputs : 1msec + 1/ f_{out} Approx. 25ms (0 to 90%)
Output waveform	Output type E : One-shot output with ON-time of 100msec Output type F : Square wave with approx. 50% duty
Contact life	1 hundred million times mechanically and 2 hundred thousand times electrically
Zero & span adjustment	±10% FS (3 turn trimmer)
Operating temperature	-5 to +55°C
Operating relative humidity	90% or less (non-condensing)
Insulation resistance	100MΩ or more with a 500Vdc megger Between input, outputs and power supply terminal
Dielectric strength	2000Vac for 1 minute
Output shutdown	This function forcibly cuts off output when the input signal is 10% or less. (Selectable 1 to 10% range)
Influence of power supply variation	AC power supply or 110Vdc : ±0.1% FS (rated voltage) Other DC power supply : ±0.2% FS (rated voltage)
Power consumption	Approx. 4.5VA (AC), Approx. 90mA (DC)
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
Mounting	DIN rail or wall surface

Terminal connections



No	Signal	Description
1	INPUT(+)	Input
2	INPUT(-)	
3	No.2 OUTPUT(+)	No.2 Output
4	No.2 OUTPUT(-)	
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