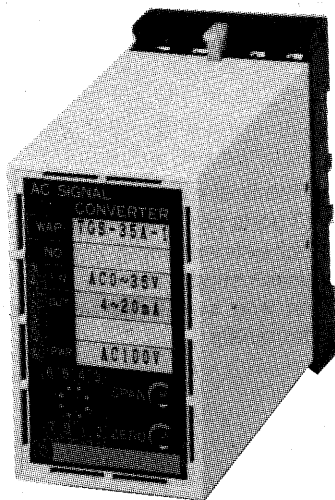


TACHOMETER-GENERATOR CONVERTER (AC SIGNAL CONVERTER)

WVP-TGD/TGS



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

This unit converts voltage signals deriving from AC tachometer generators which are widely used in the detection of rotating speeds, into DC signals that can be used in a standardized manner in measurement control systems. It features a compact and easy-to-handle plug-in design, and its output signal is ideal for computers, etc., since the signals contain low ripple and are hardly affected by load resistance.

Features

- Ideal for signal level standardization and prevention of noise infiltration in transmission.
- Constant-voltage or constant-current output that does not require the specification of a load resistance value.
- High accuracy and low ripple output signals, ideal for signal output to computers.
- Small-sized plug-in design to enable mounting on or demounting from DIN rails using a one-touch process.
- The type TGS has its input and output signals isolated, with a dielectric strength of 2,000 VAC.

Model WVP -

TGD	Non-isolated
TGS	Isolated

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

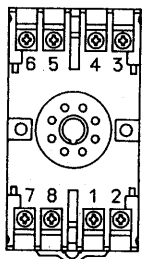
Input Signal		
		Input Resistance
35	AC 0–35 V	Approx. 1 M Ω
10	AC 0–50 mV	Approx. 1 M Ω
11	AC 0–60 mV	Approx. 1 M Ω
12	AC 0–100 mV	Approx. 1 M Ω
13	AC 0–1 V	Approx. 1 M Ω
14	AC 0–10 V	Approx. 1 M Ω
15	AC 0–100 V	Approx. 1 M Ω
16	AC 0–100 V	Approx. 1 M Ω
17	AC 0–150 V	Approx. 1 M Ω
18	AC 0–200 V	Approx. 1 M Ω
19	AC 0–250 V	Approx. 1 M Ω
99	Other than the above (Please specify a value between 50 mV \cdot fs and 250 V \cdot fs.)	

Output Signal		
		Allowable Load Resistance
A	DC 4–20 mA	750 Ω or less
B	DC 1–5 mA	2 K Ω or less
C	DC 2–10 mA	1 K Ω or less
D	DC 0–1 mA	10 K Ω or less
E	DC 0–10 mA	1 K Ω or less
F	DC 0–16 mA	625 Ω or less
G	DC 0–20 mA	500 Ω or less
H	DC 1–5 V	2.5 K Ω or more
J	DC 0–10 mV	10 K Ω or more
K	DC 0–100 mV	100 K Ω or more
L	DC 0–1 V	500 Ω or more
N	DC 0–5 V	2.5 K Ω or more
P	DC 0–10 V	5 K Ω or more
R	DC \pm 10 V	5 K Ω 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:	Voltage signals from AC tachometer generators.
Output signal:	DC voltage, DC current
Accuracy:	$\pm 0.3\% \cdot fs$ (at 23°C)
Allowable load resistance:	For voltage output, use the converter with a load current of 2 mA or less (1 μA or less for an output below 1 V $\cdot fs$). For current output, use the converter with a voltage drop of 15 V or less between output terminals.
Response time:	500 msec (time to reach 90% of the final value)
Output ripple:	0.2% (p-p) $\cdot fs$ or less
Frequency range:	20 to 1000 Hz
Operating temperature and humidity:	-5 to +55°C, 90% RH or less (without condensation)
Influence of ambient temperature:	$\pm 0.2\% \cdot fs/10^\circ C$
Insulation resistance:	100 M Ω 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)
Zero & span adjustment:	$\pm 20\% \cdot fs$ each (multi-turn trimmer)

Explanation of Terminals



No.	Symbol	Description
1	OUTPUT	+
2		-
3	INPUT	
4		
5		N.C.
6		N.C.
7	POWER	U (+)
8		V (-)