

F/V Converter

FV-1100

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The FV-1100 receives signal from a rotation detector or a similar device and outputs DC current or voltage signal proportional to its frequency. As the fluctuation of the input frequency signal is continuously converted to DC voltage, it is useful for measurement and recording of transient phenomena such as fluctuation of rotating speed, current velocity, frequency.

Features

- Withstand voltage 2000 VAC/1 minute (chassis, primary power supply)
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- Equipped as standard of power supply for sensor (12 VDC, 100mA).
- AC/DC input signal selectable
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- Frequency range can be specified from 100 Hz to 100 kHz as an option (standard : 10 kHz)
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- Output data (current or voltage signal) can be used for recording with a pen recorder etc.

Overview specification

Conversion method	Constant width pulse integration method
Response	30 ms (depending on the option frequency)
Input frequency	10 kHz (100 Hz to 100 kHz: option)
Input terminal	BNC (CO2) / terminal board (3.5M)
Input voltage	AC input sine wave:0.2 to 50 Vrms, rectangular wave: 0.6 tp 70 Vp-p

	DC input square wave:Hi = +4 to 30 V, Lo = -1 t to +1 V, pulse width 3 μs or more
Input impedance	80 kΩ or more (20 kHz), 30 kΩ or more (100 kHz)
Output terminal	Terminal block (3.5 M)
Output voltage	0 to 10 V, load resistance 1 kΩ or more (0 to 5 V/0 to 1 V/0 to 0.1 V: option)
Output current	4 to 20 mA, load resistance 500 Ω or less (The setup of 0 to 16 mA can be selectable.)
Linearity	±0.2 % or less of the maximum rated value
Ripple	0.1 % of the maximum rated value or up to 10 mV (Input frequency level during 5 % of full-scale frequency input)
Power supply for detector	+12 VDC ± 10 %, 100 mA
Power supply	100 VAC +10%, -15% or less, 46 to 63 Hz (110/120/200/220/240 VAC: option)
Operating temperature range	0 to 40 °C
Weight	Approx. 2 kg
Outer dimensions	245 (W) × 99 (H) × 180 (D) mm
Accessory	Power cable for 100 VAC (AX-2050N: 3 m)x1, flat-tip screwdriver x 1, panel mounting fixture x 1set, instruction manual x 1

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Please send your questions and inquiries to: E-mail
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