

Vibro Converter MODEL-2502

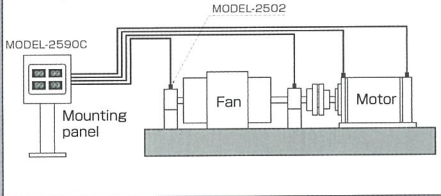
- Choose between the acceleration type, velocity type, and displacement type.
- Convenient 4-20 mA output type. Usable with long-distance wiring.
- For vibration monitoring for pumps, blowers, and all other kinds of rotary machinery.



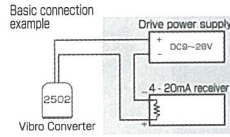
Applications

- For simple, low-cost vibration monitoring systems
- For building into rotary devices such as motors, pumps, and blowers
- As a vibration detector for automatic testing systems
- As a simple dedicated vibrometer
- For equipment diagnostics in construction equipment and chemical and manufacturing plants
- For other vibration measurement and monitoring

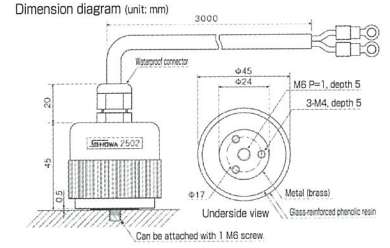
Example 1: Fan vibration monitoring



Delivering simple, low-cost vibration monitoring



Our 2590B digital monitor includes this portion, as well as a warning circuit.



Specifications

Measurement mode	Acceleration	Velocity	Displacement	Displacement
Model	2502-01	2502-02	2502-03	2502-03H
Full scale range	100m/s ² Peak	50mm/sRMS	200 μm (P-P)	2mm (P-P)
Frequency range	5 ~ 1,000Hz	10 ~ 1,000Hz	10 ~ 500Hz	10 ~ 500Hz
Measurement range	1 - 110% of full scale			
Output	DC4-20mA/0- full scale			
Linearity	Within 1% of full scale			
Accuracy	Within 5% (80Hz, 1/2 full scale, 20°C)			
Drive power supply	DC9 ~ 28V			
Temperature range	-20 ~ 80°C			
Protective structure	IP64			
Vibration resistance	Vibration 200m/s ² , shock 1,000m/s ²			
Insulation resistance	100M Ω DC500V (terminal to casing)			
Withstand voltage	AC1,500V, 1 minute (terminal to casing)			
Output cable	3m, direct from unit, crimp terminals at end			
External dimensions and weight	φ 45×45(H)mm, 105g (not including cables)			
Material	Glass-reinforced phenolic resin			
Mounting	M6 screws			
Options	Extension cable CA02743-XXm (Including cost of attaching the dedicated connector to the body) MG-6 magnet for mounting			

Digital monitor MODEL-2590C

- A digital monitor which displays signals of 4-20mA with a scaling display.
- Incorporates an alarm circuit with 2 upper limit values, AL1 and AL2, and a delay timer.
- Combines with MODEL-2502 to configure a simple, low-cost vibration monitoring system.



Digital display monitor with alarm function

Specifications

Input signal	4-20mA
Analog output	4-20mA
Input resistance	10 Ω
Display	Settable to between 0 and the desired full scale value
Display unit	5-digit 7-segment red LED display
Display cycle	Settable to 0.1-5s, default is 1s
Power supply for driving external devices	DC24V, 100mA Max.
Alarm settings	The two upper limit values, AL1 and AL2, can be set to any level, Automatic reset or self-hold possible. Delay setting: Settable to 0.1-99.9s, default is 5s
Alarm relay	Each 1C contact, rated AC250V 5A, DC30V 5A Max.
Panel face protective structure	IP65 (when used with rubber seals)
Temperature in use	0 ~ 50°C
Dimensions and weight	96(W)×48(H)×92(D)mm approx. 300g
Power supply	AC85 ~ 264V 50/60Hz 15VA Max.
Options	① Analog output change Output types: 4-20mA, 0 - 5V, 1 - 5V, 0 - 10V ② DC24V power supply type