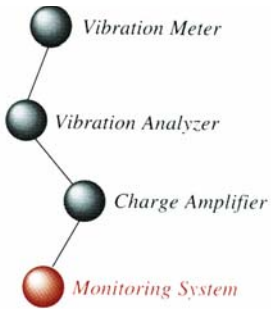
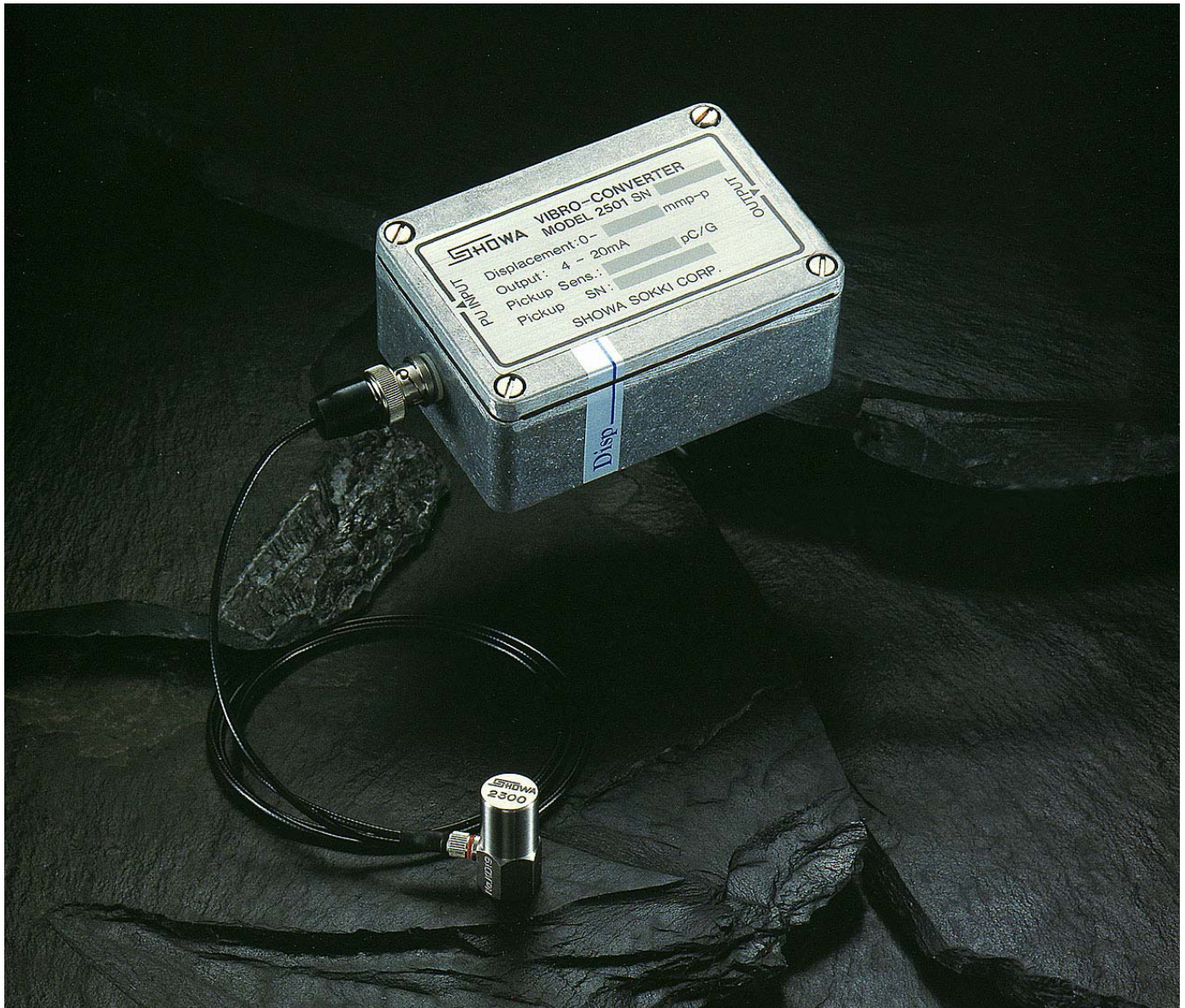


Vibro-converter Model-2501



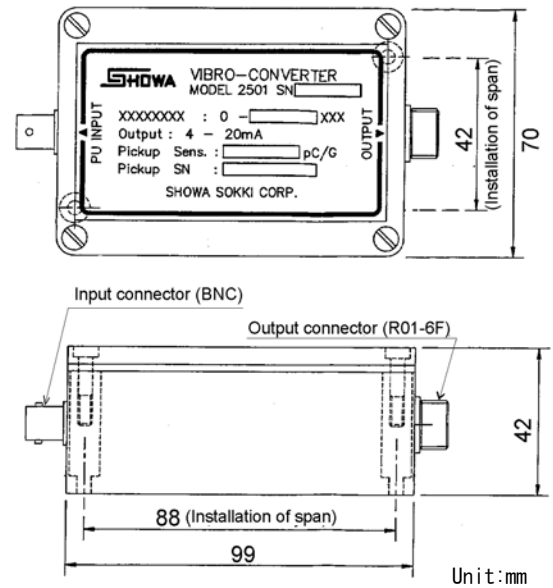
Stationary type vibration converter for monitoring vibrations of rotating machines and controlling trend of vibrations. Model-2501 serves to convert vibrating acceleration, velocity and displacement values into 4 to 20 mA signals.



- Compact piezoelectric sensor suitable for measuring application such as high temperature and high vibration level is selectable.
- 4 to 20mA output corresponding to vibration values is adjustable within a certain range.
- Ac output is available for waveform analysis using a FFT analyzer.
- This unit is easily connectable to a recorder, indicator or data collector is a remote location.

SPECIFICATIONS

Maximum charge input: $\pm 1,000\text{pC}$
 Maximum input capacity: $10,000\text{pF}$
 Acceleration measurement (Measured value for detector 50pC/G)
 Measuring range: Any value is adjustable to maximum output of 20mA within the range of 20m/s^2 to 100m/s^2 or 2G to 10G .
 Resolution: 0.1m/s^2 or 0.01G
 Frequency range: $3\text{Hz} \sim 10\text{KHz}$ (-3dB), $5\text{Hz} \sim 8\text{KHz}$ (-1dB), $10\text{Hz} \sim 5\text{KHz}$ ($\pm 0.5\text{dB}$)
 Low-pass filter: IN \dots 1KHz cut-off (-3dB), Any frequency is optionally available (within range of 50Hz to 5KHz).
 OUT \dots 10KHz cut-off (-3dB), Fixed
 Velocity measurement (Measured value for detector 50pC/G)
 Measuring range: Any value is adjustable to maximum output of 20mA within the range of 20mm/s to 100mm/s .
 Resolution: 0.1mm/s
 Frequency range: $7\text{Hz} \sim 10\text{KHz}$ (-3dB), $10\text{Hz} \sim 6\text{KHz}$ ($\pm 1\text{dB}$)
 Displacement measurement (Measured value for detector 50pC/G)
 Measuring range: Any value is adjustable to maximum output of 20mA within the range of 0.2mmP-P to 1mmP-P .
 Resolution: 0.001mmP-P ($1\mu\text{m}$)
 Frequency range: $8\text{Hz} \sim 10\text{KHz}$ (-3dB), $10\text{Hz} \sim 700\text{KHz}$ ($\pm 1\text{dB}$)
 DC output: $4 \sim 20\text{mA}$, Load resistance \dots 300Ω ,
 Detection \dots AVE-PEAK
 Up to $1/10$ of full scale is adjustable to 20mA with zero span.
 Control. AC output: $\pm 2\text{V}$ full scale (fixed with full scale that is determined according to pick-up sensitivity)
 Accuracy: 5% or less (80Hz , 1G , sine wave, normal temp)
 Linearity: 1% or less
 Diving power: $\text{DC}11\text{V} \sim 26\text{V}$, 30mA
 Temp. & humidity range: Operation: $0 \sim 50^\circ\text{C}$, Storage: $-20^\circ\text{C} \sim 70^\circ\text{C}$, 90% RH or less
 Case material: Aluminum alloy (Neoprene packing)
 Component Device: Converter cable: CA4612-3m (3m)



OPTION

- [Pick up] Piezo-Electric Type **MODEL-2300A, MODEL-2304A**, etc.
- [Insulated Stud] **SI-17**
- [Pick up cable] Low Noise Cable **LNC-3F-1.5** (m), **LNC-1A-3** (m), etc.
- [Output cable] **CA4612-***** (m)
- [Digital Monitor] **MODEL-2590**



SI-17



The Digital Monitor Model 2590 receives a $4 \sim 20\text{mA}$ signal from the vibration converter, scales it into a vibration value for digital display and allows the vibration to be

2-high limit position alarm contact output. As an operating power supply for vibration converter is incorporated to make installation easier.

■ Specifications

Input signal:	$4 \sim 20\text{mA}$ (Span/Zero fine adjustable)
Power supply for converter:	$+15\text{V}$, 40mA max.
Alarm setting:	2 high limit positions AL I (HH) and AL II (H)
Alarm relay contact:	Transfer. Rating AC 250V 5A , DC 30V 5A max.
Alarm delay:	Can be set at $0 \sim 99.9$ sec.
As desired	
Power supply:	AC $85 \sim 264\text{V}$ $50/60\text{Hz}$, 5VA or less
Dimensions and weight:	96 (W) \times 48 (H) \times 90.4 (D) mm Approx. 300gram