

Respond to the needs,\* safe and comfortable.”

**SHOWA**

Vibration-Transmitter

**VIBRO-CONVERTER**

MODEL

**2502**

For vibration monitoring and control  
with simple and reliable.



#### FEATURES

Three types; measurements for displacement, velocity and acceleration.  
As output is 4 to 20 mA, it is possible to connect to recorder, indicator and sequential circuit directly.  
Small size! light weight! low price!  
All in one type for sensor, amplifier and transmitter.  
It is only double lines type, joined together for both lines, power supply and signal.

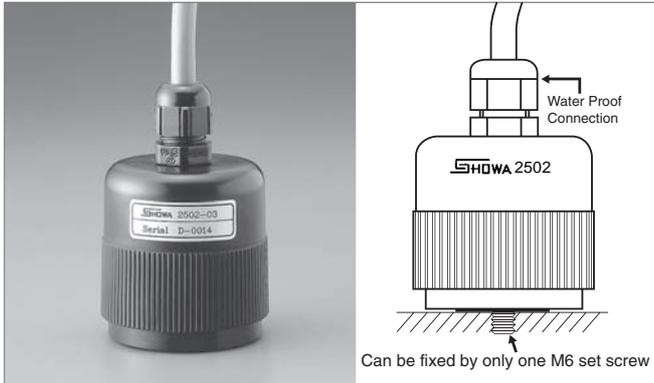
#### APPLICATIONS

For simple vibration monitoring system with low cost.  
As for assembling into the electric motors, blowers, pumps and the other various rotating machines.  
As the vibration sensor in the automatic inspection system.  
As for the simple type vibration meter.  
For trend recording of vibration level.

# Vibration Transmitter

## VIBRO-CONVERTER

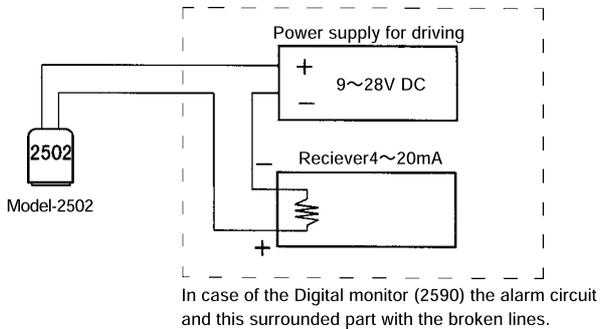
### MODEL 2502



#### Specifications

Model	2502-03	2502-02	2502-01
Type	Displacement	Velocity	Acceleration
Full scale range	200 $\mu$ mP-P	50mm/s RMS	100m/s <sup>2</sup> Peak
Measuring range	1%~110% of Full scale		
Output current	4 to 20mA		
Frequency range	10~500Hz	10~1000Hz	5~1000Hz
Linearity	Within 1%		
Accuracy	Within 5% (80Hz, 1/2 Full scale, 20°C)		
Transverse sensitivity	Less than 5%		
Driving voltage	9~28V DC		
Warming up time	10sec. approx		
Ambient temperature	-20°C to +60°C		
Protection	IP64		
Vibration limit	200m/s <sup>2</sup> for continuous 1000m/s <sup>2</sup> for shock		
Resonant frequency	5kHz approx		
Withstand voltage	AC1500V 1minute		
Output cable	3m pig tale (VCTF 2×0.75mm <sup>2</sup> )		
Dimensions	$\phi$ 45×H45mm		
Weight	105g without cable		
Accessories	Setscrew M6 R = 10		
Option	Digital monitor 2590 Mounting base		

#### Basic Wiring Circuit



#### Option



### Digital Monitor Model 2590

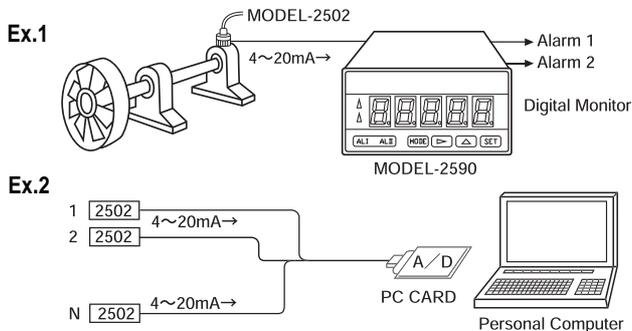
The Digital Monitor Model 2590 receives a 4-20mA signal from the vibration converter, scales it into a vibration value for digital display and allows the

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

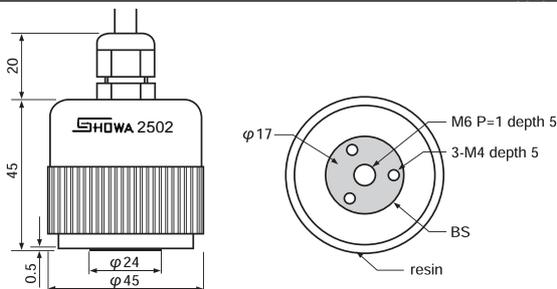
#### Specifications

Input signal :	4-20mA (Span/Zero fine adjuster provided)
Indication range :	Can be set at 0 to intended value on scale value.
Indicator :	7-segment red LED, 5-digit
Sampling cycle :	Can be set at 0.2/1/2/5/10 seconds.
Accuracy :	$\pm 0.1\% \pm 1$ digits (23°C $\pm 5^\circ$ C)
Power supply for converter :	+15V, 40mA max.
Alarm setting :	2 high limit positions AL I (HH) and AL II (H)
Alarm value check :	Indicated for about 10 sec. by pressing AL I or AL II
Alarm relay contact :	Transfer. Rating AC 250V 5A, DC30V 5A max.
Alarm delay :	Can be set at 0~99.9 sec. as desired.
Analog output (option) :	0-10V, 1-5V, 4-20mA when ordering.
Power supply :	AC85~264V 50/60Hz, 5VA or less
Operating temp. and humidity :	0-50°C, 85%RH max. (No dewing shall occur.)
Dimensions and weight :	96(W)×48(H)×90.4(D) mm Approx 300g

#### Examples for the indicators and meters to be possible to connect



#### Drawing for the External View



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