Vibrating wire Read out

Vibration wire readout is designed for use with all of vibration wire sensors in all kinds of weather conditions

Operating principle

The vibrating wire readout operates by initially generating a voltage pulse containing a spectrum of frequencies that span the natural frequency range of the wire in the gage being read. when the signal reaches the coil assembly mounted inside the gage, adjacent to the wire, it change the magnetic field around the wire at a frequency corresponding to that of the input signal.

When one of the frequencies in the input signal coincides with that of the wire, the wire vibrates and continues to vibrate after the input signal has ceased.



Specification

Excitation Range	400HZ ~ 6.000HZ	
Resoultion	0.1microstrain	
Timebase Accuracy	0.01%	
Temperature Type	themistor	
Temperature Range	-20°C ~ 80°C	
Temperature Resoultion	0.1℃	
Dimension	217×160×218	

MODE	Calculation	Units	Frequency sweep(hz)
А	Period in seconds	µseconds	450 - 6,000
В	$F^2 \times 10^3$	digits	1,200 – 3,500
С	F ² ×10 ³ ×4.062	strain	450 - 1,000
D	F ² ×10 ³ ×3.304	strain	450 - 1,000
Е	$F^2 \times 10^3 \times 0.39102$	strain	1,000 - 3,500
F	$F^2 \times 10^3$	digits	2,500 - 6,000



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