

Ultrasonic Vibration Meters

Philtec's Ultrasonic Vibration Meters deliver a low cost solution for production testing of ultrasonic equipment. The **model UV40** system *measures and displays the peak-to-peak amplitude of vibration at ultrasonic frequencies*; i.e., 10 KHz to 120 KHz. With inputs derived from an RC type fiberoptic displacement transducer, the gage can be operated without the need for calibration to specific target materials.



FEATURES

- Fiberoptic Transducer, EMI Free
- RC Type Fiberoptics
- Analog display, 100 Micron Full Scale, 1 Micron Resolution
- Analog Output, 0-100 Microns, 0-5 volts, 0.25 Micron resolution
- Contact Measurement Collar For Target Scans
- Dual Range, 100 Microns and 10 Microns FS
- Analog Output with 200 KHz bandwidth

CONTACT MEASUREMENTS

The standard UV40 utilizes a model RC25 fiberoptic displacement transducer, which provides non-contact displacement measurements. An accessory collar is provided which, when properly clamped onto the sensor tip, facilitates easy scanning over target objects to make measurements in a portable sense. The purpose of the collar is to a) help maintain the sensor perpendicularity to the target surface and b) position the sensor with the appropriate standoff distance to the target.

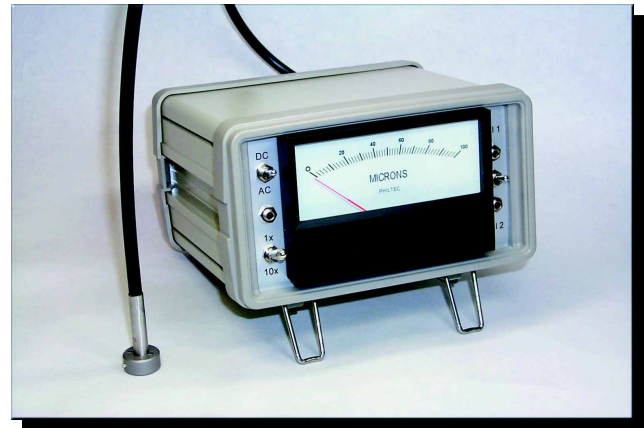
To make measurements, press the collar against the vibrating target surface using a light pressure. With a little practice, the right feel can be developed to get consistent good results. Too little pressure gives erratic readings. Heavy pressure can reduce the amplitude of vibration of the target object



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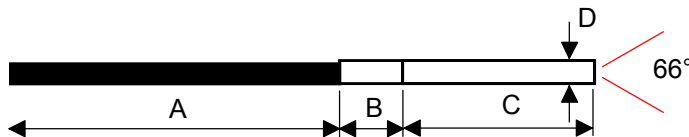
Model UV40



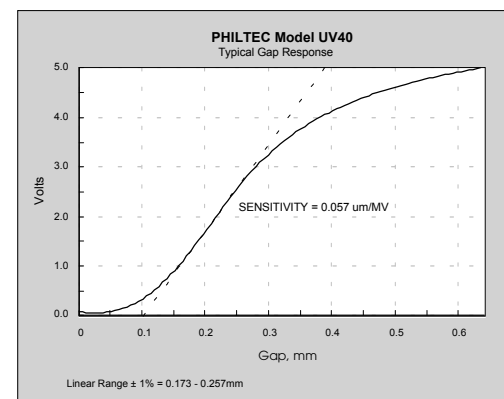
Measures and Displays The Peak-To-Peak Amplitude of Vibration at Ultrasonic Frequencies

Features

- Non-Contact Fiber Optic Transducer, EMI Free
- Reflectance Compensated Fiberoptics
- 10 KHz - 120 KHz Bandwidth
- Dual Range 100 and 10 Microns Full Scale
- Contact Measurement Collar Included
- Analog Display, 100 Micron Full Scale, 1 Micron Resolution
- Analog Output, 0-100 Microns, 0-5 VDC, 0.25 Micron Resolution
- Analog Output, Unfiltered, DC - 200 KHz
- Scaling Adjustments For Any Two Frequencies



SENSOR FEATURE		INCH	MM
Fiber Bundle Area		0.025 x 0.125	0.64 x 3.175
Tip Outer Diameter	D	0.281	7.137
Tip Length	C	1.0	25.4
Collar Length	B	0.5	12.7
Collar Diameter	B Dia.	0.281	7.137
Cable Length	A	36	91.44
Cable Diameter	A Dia.	0.235	5.969
Cable Minimum Bend Radius		0.875	22.2
MAINFRAME FEATURE		INCH	MM
Height		3.375	85.5
Width		6.125	155.5
Depth		6.0	152.0
Weight	3 lbs		
Frequency Response	10 KHz to 120 KHz		
Power Required	AC Power Adapter Provided		



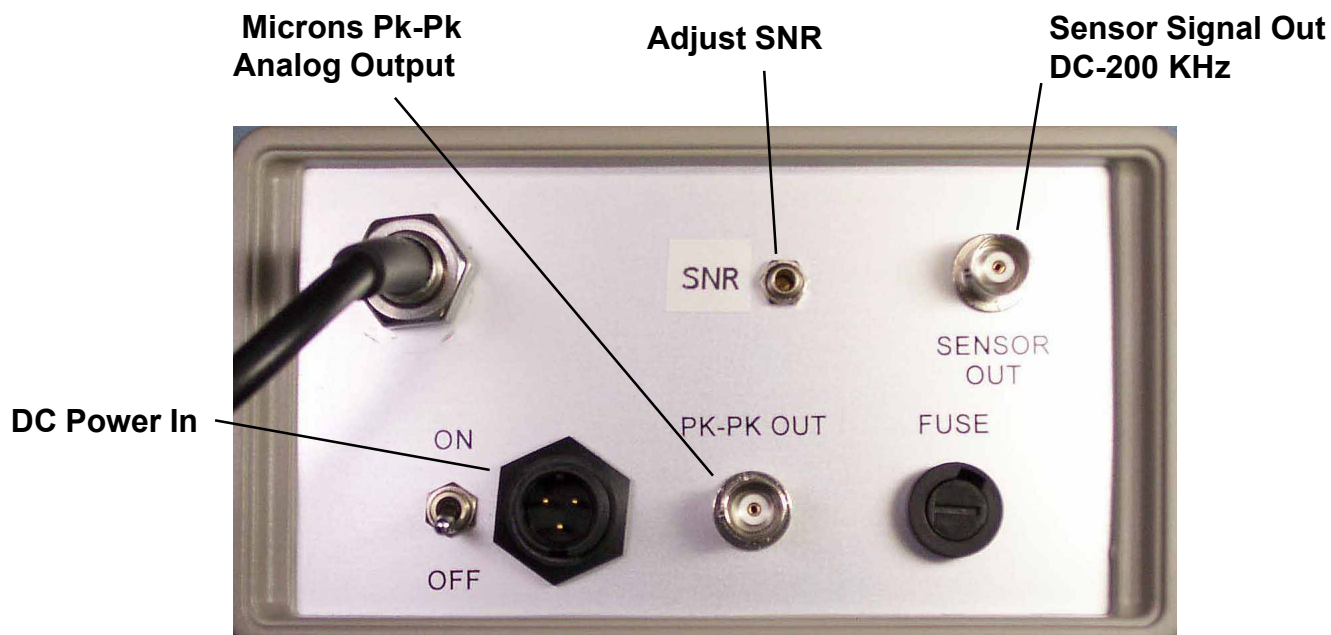
UV40 delivers a low cost solution for production testing of ultrasonic equipment. With Philtec's model RC25 non-contact reflectance-compensated fiber optic displacement transducer, the gage operates without the need for calibration to specific target

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Front Panel



Back Panel