

Model 640-S Triaxial Accelerometer

- *Allows vibration data collection in three primary axes with only one accelerometer unit mounting*
- *Offers repeatability, even in the hands of inexperienced users*
- *Provides the capability of automatically sequencing through each of the three triaxial channels*



Introduction

The CSI Model 640-S Triaxial Accelerometer Package enables the predictive maintenance specialist to collect vibration information in three primary axes with only one accelerometer unit mounting. Although the accelerometer mounting requires more time than that associated with either a magnetic or hand-held accelerometer, it takes no more time than a screw mounting of a single axis accelerometer. The positive indexing of the accelerometer, precise

positioning, and mounting rigidity of this system does provide a high degree of repeatability, even in the hands of inexperienced users.

Use of the triaxial accelerometer requires the addition of a Model 641-C Multiplexer Adapter on the CSI Model 2120 Input Port, and a 640-C for the 2115 and 2117 analyzers. This adapter provides the capability of automatically sequencing through each of the three triaxial channels.

The adapter is connected to the accelerometer with a single multiconductor cable with military connectors on each end.

Using the triaxial accelerometer results in two of the three axes with a direction of sensitivity that does not pass through the center of the vibration source being measured. This characteristic generally results in those two axes having a different (usually higher) reading than that obtained with a single axis accelerometer mounted with its direction of sensitivity passing through the source center. If the data is used for trending purposes, this is of no consequence. If absolute readings are required, the error factor must be accounted for.

Model 640-S Technical Specifications

Weight: 150 grams, 5.3 oz.

Sensitivity: 100 mV/g

Frequency Response: 1.6 Hz - 5 kHz $\pm 5\%$;
X, Y, and Z

Temperature Range: -65° F to +250° F

Mounting: 1/4-28 captive screw

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