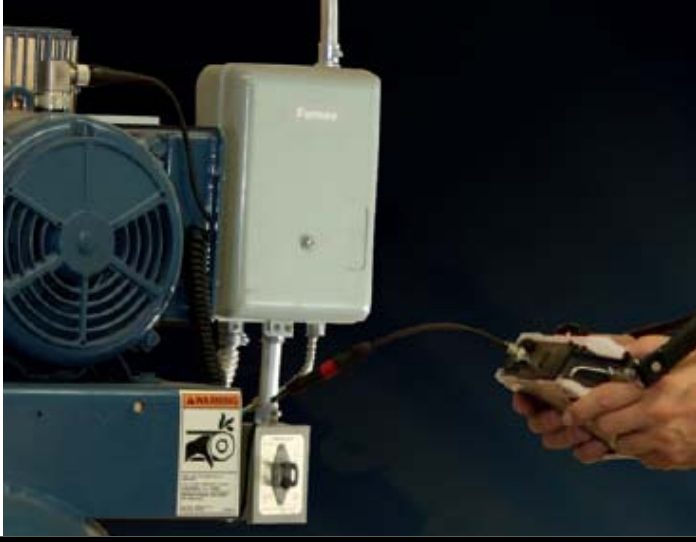


# CTC AppNotes

A series of technical documents written by members of the CTC community

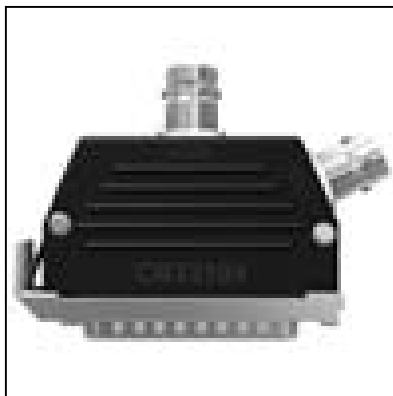


Collecting data accurately in the field is an important function of the vibration analyst.

## Taking Dynamic Vibration Data with CSI 2120 or 2130 from CTC's SC200 series Signal Conditioners

With the increasing popularity of continuously monitoring critical machinery, we have recently seen a rapid increase in the number of analysts that wish to take dynamic vibration data from CTC's SC200 series signal conditioners. This is accomplished very easily, provided the correct procedure and right equipment is used. All that is needed is to follow the 5 easy steps outlined below.

1 - Define the measurement point in RBM Ware exactly the same as one would a normal route measurement point using a hand held accelerometer. The one exception will be that sensor power needs to be



CMX 2104 adapter.  
The Voltage input must be used to collect data from SC200 series Signal conditioners



SC200 series Signal Conditioner. Provides 4-20 mA and 0-5 V or 0-10 V outputs proportional to vibration

turned off. This is done on one of the two pages in RBM Ware, during measurement point set-up.

2 - Using the CMX2104 adapter (or CSI's A625 adapter) attach the BNC connector marked Volts (on the CMX 2104, this is the BNC mounted on the 45 degree angled surface) to the BNC connector on top of the SC200 Series signal conditioner with a BNC to BNC cable.

3 - Collect the measurement as normal, using the Enter key.

4 - When one is comparing the overall vibration value collected with the 2130 to the output of the DC voltage (Terminals 7 & 8) or the mA output (Terminals 11 & 12) it is important to remember that the measurement point setup in the CSI 2130 has to match the High Pass and Low Pass filter settings on the SC200 signal conditioner.

5 - If comparing values from a second transducer from a normal route mode please be sure again that the frequency filter settings are the same and the second sensor is mounted in the same approximate location as the sensor connected to the SC200 signal conditioner.

If you have any questions or for further information please contact CTC directly via Email at [dgripe@ctconline.com](mailto:dgripe@ctconline.com) or [jsmith@ctconline.com](mailto:jsmith@ctconline.com) or feel free to call 1-800-999-5290 in the US and Canada

If any CTC vibration analysis hardware product should ever fail, we will repair or replace it at no charge.