

# CTC AppNotes

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

## Clarifying 25 Pin Adapters for CSI 2130 Accel/Voltage Input

### Executive Summary

#### Introduction -

When utilizing an Emerson CSI 2130 to obtain both acceleration and voltage inputs, confusion on which adapter to use in field applications has been raised.

CTC offers two 25 pin adapters for both acceleration and voltage inputs.

These are the model CMX2136-AV and CMX2104 adapters.

Please refer carefully to the descriptions of each below.

Data collection can be performed using a variety of CTC's dual output enclosures two examples would be the SB142 and DSB1000 Series enclosures -



SB142 Series



DSB1000 Series

These enclosures allow the analyst to simultaneously power the vibration circuit of the sensor and collect the temperature output at the same time.

**CTC CMX2104** This adapter may be used in applications where the vibration analyst needs to acquire either:

- A) an accelerometer input that requires the IEPE voltage be supplied by the data collection device which would be obtained from the acceleration BNC jack  
or
- B) a non-powered input such as from a vibration panel where the sensor is already powered from the voltage BNC jack .

Please note, this adapter supports only one of the two measurements at any given time as both the acceleration and voltage inputs are directed to the channel one input on the analyzer..

**Conclusions -** When choosing either the CMX2136-AV or CMX2104 25 pin adapter carefully consider the application required. Consider in most situations the CMX2104 will be the adapter of choice since typically the analyst is collecting one type of measurement at any given time.

In specialized applications using a dual output sensor such as CTC's TA10X the CMX2136-AV adapter will be the adapter of choice.

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 or +1-585-924-5900 internationally.



#### **CMX2136-AV for Acceleration and Voltage IEPE Input**

25 Pin Adapter, CSI 2130 compatible only, allows for simultaneous input to channel (1) BNC acceleration and channel (2) BNC for voltage,



#### **CMX2104 for Acceleration IEPE Input**

25 Pin adapter. Allows for either one channel voltage or one channel acceleration input. Comparable to CSI A625 adapter For CSI 2120/2130.

#### Application -

**CTC CMX2136-AV** This adapter may be used in applications where the vibration analyst, using specifically a CSI Emerson 2130 analyzer, needs to acquire both an accelerometer input that requires the IEPE voltage be supplied by the data collection device and additionally a non-powered input such as the temperature output of CTC's TA10X Series sensors.



TA102-1A

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