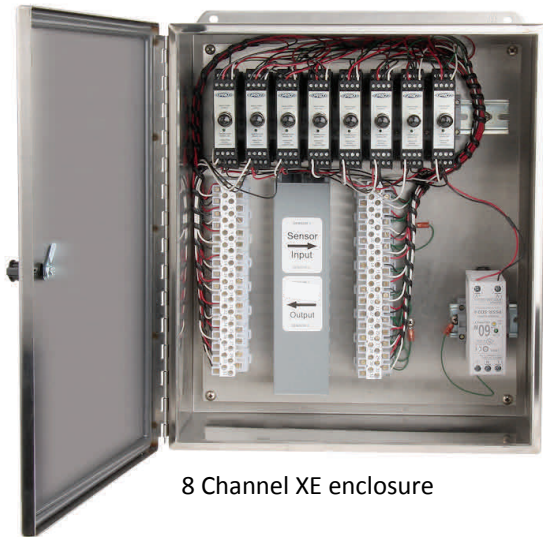


CTC AppNotes

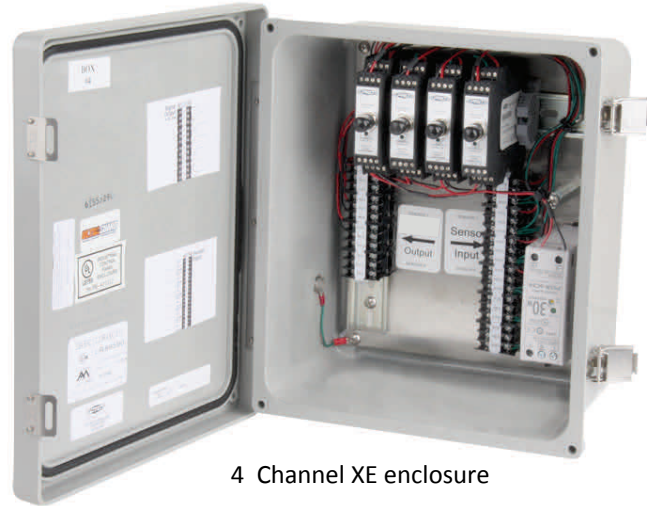
A series of technical documents written by members of the CTC community

Voltage Outputs for XE Signal Conditioner Enclosures

Most signal conditioners for sale in the vibration industry offer two different outputs for



8 Channel XE enclosure



4 Channel XE enclosure

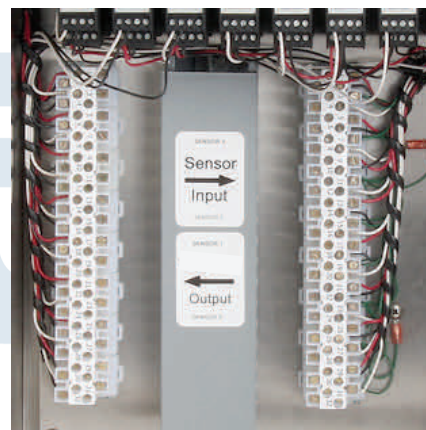
process monitoring. CTC's SC200 series signal conditioners offer both a 4-20 mA output option and a DC voltage option, selectable by the user, of either 0-5 volts DC or 0-10 Volts DC. Until now the only enclosures offered to house the SC200 series conditioners only have featured the 4-20 mA output to a PLC, DCS or SCADA system. One drawback of this approach is that using the 4-20mA outputs requires that each channel being monitored be isolated from all other PLC channels. This causes a problem with some control input cards in that it can reduce by 50% the number of channels the input card can monitor.

New XE350 and XE450 series

By offering the XE350 and XE450 series enclosures with voltage outputs the issue the requirement for isolated commons is removed. Voltage outputs can share the common, thus allowing all of the possible inputs to the cards to be utilized.

Temperature option

In order to offer a completely voltage based solution, the temperature output of CTC's TA series sensors is brought out directly to the terminal strips in its raw form (10 mV/°C with a range from 3°C to 120°C).



XE series enclosures are designed for easy "turn-key" operation. Land sensor inputs on the right side terminal strips and take the outputs to the

monitoring system from the left-hand terminal strips.

If you have any questions or for further information please contact CTC directly via Email at dgripe@ctconline.com or jsmith@ctconline.com or feel free to call 1-800-999-5290 in the US and Canada or +1-585-924-5900 internationally.

If any PRO product should ever fail, we will repair or replace it at no charge, as long as the product was not subjected to misuse, natural disasters, improper installation or modification which caused the defect.