

CTC AppNotes

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

Applications for PRO enclosures: VPR series, MVR series and RXE series enclosures

This edition of CTC Appnotes for pro products will clarify the differences between our three most popular relay and protection solutions to make it easier for an analyst to determine the correct product for a particular application.

VPR series PRO's top of the line VPR enclosure offers complete standalone protection along with the ability to take local



Figure 1: VPR100-4S-V0-AA Standalone system with see through protective door

dynamic vibration readings. The important differentiating features from our other offerings include the transparent cover on the large NEMA 4x enclosure, along with the easy to install turnkey setup internal to the enclosure. Just bring 110 volt power to the VPR and wire in your accelerometers. The VPR will be ready to perform. This unit can also be configured in the field should any changes need to be made. The VPR series provides up to 4 channels monitoring for vibration with the ability to send both alarms and shutdown signals. VPR enclosures are suitable for mounting out doors even in relatively exposed areas. The VPR series has been successfully used in many applications including but not limited to:

- Monitoring cranes and mining machinery;
- As emergency shutdown switch for lift pumps for municipal sanitation
- Steel production process monitoring
- Power plants

MVR Series The MVR enclosures offer much of the functionality of the VPR series at a lower cost. The process control modules are inset in to the enclosure door rather than behind a see through panel, exposing them to the elements and reducing the enclosure rating to NEMA4. As the MVR enclosure is smaller than the VPR, the internal space for wiring is somewhat more cramped though it is still designed as a turnkey type of product. Just supply power and signals from the accelerometers. MVR series systems are at work in many of the same industries as the VPR systems, although they are usually placed in less exposed situations.



Figure 2: MVR1000-4S-V0-AA Lower cost standalone system

RXE Series The RXE series mimics some of the functionality of both the VPR and MVR, providing local readings with 4-20 out and two relay set-points. RXE enclosures can be used for applications where more than four measurement points are required and where a Form A relay can be used. The RXE does not offer the same level of readable screens and adjustable relay functions, but it does offer a good solution at a reasonable price.



Figure 3: RXE150-06-06-AA Up to 6 channels with two setpoint relays for alarm and shutdown.

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.

