

Solving Corrosion Problems - Profit From Moniteur's Expertise

Moniteur Devices offers a range of methods to improve corrosion resistance in the field. Because environments are so different, a variety of options has been developed based on real-world experience and cost requirements. The different options are presented here with their features and benefits:

Standard Polyurethane Coating

With the standard 2-part polyurethane coating, BUNA-N O-ring seals, and the clear Ektar cover, the standard units have been developed to stand up well in most indoor and outdoor environments.

Hard Anodizing (Post-Machining) to MIL-A-8625-F Type III Class II



For the Sentinel series, Moniteur offers MIL Spec hard anodizing of the limit switch enclosure to prevent flange corrosion. The anodization process forms a protective aluminum oxide layer chemically bonded to the aluminum that greatly enhances corrosion resistance in virtually all corrosive environments. The castings are anodized *after* machining to assure there is no exposed aluminum. It is important to note that Explosion-proof enclosures with flange corrosion lose their hazardous area rating once opened, as the precise flamepath fitting is compromised. This option is becoming more popular as end users understand the benefits.

Full Exterior and Interior Painting Epoxy Powder Coating

In environments with large temperature shifts and areas with high humidity, condensation may form inside the enclosure. If harsh chemical vapors are also present, the combination can form corrosive compounds inside. By painting the inside of the enclosure with epoxy, corrosion is minimized. Exterior epoxy coating is also available to meet plant requirements and specifications.

Thermoplastic Enclosures

Choose the Survivor series of thermoplastic VPTs with SuperTough Zytel resin enclosures. Resin enclosures are the most cost-effective means of providing corrosion resistance. The Survivor II series includes stainless steel inserts and bearings for additional resistance. However, Resin enclosures do not meet explosion-proof requirements.

More Options To Enhance Resistance

Non-Contact (Proximity Type) Switches and Sensors are available to protect switching elements and sensitive circuitry from corrosion

Stainless Steel Bearings enhance corrosion resistance over the standard bronze.

Viton O-ring seals are available for environments where chemical vapors are incompatible with the standard BUNA-N seals

Flat cover indicators with no external plastics for areas where chemicals attack plastics

Stainless Steel or Thermoplastic Brackets are available for corrosion resistant packages