



Water Damaged Controller

FIRETROL FACTORY POSITION

Ken Kuhn | April 8, 2021

The circuit board pictured above exhibits water damage to the surface of the board and the solder runs. The extent of the damage may not be evident until well after the initial exposure occurs.

<Rosemont Engineering photo)

From the National Electrical Manufacturers Association (NEMA) guide titled Evaluating Water:

Damaged Electrical Equipment. It has recognized that it is extremely hazardous to energize electrical equipment exposed to water. Contaminants dissolved in the water can be damaging to and affect the integrity of the equipment and will cause future corrosion of internal parts.

The guide recommends following the specific recommendations of the original equipment manufacturer. It is not known how much water the components were exposed to or how long the components were wet. Since the degree of water damage cannot be fully determined and considering the importance of a fire pump controller, it is recommended the complete replacement of the fire pump controller.

Furthermore, the controller cannot be repaired in the field. Repairing the controller would require the replacement of all the internal components. With the magnitude of work required, the approval agencies would consider this re-manufacturing, fire pump controllers can only be manufactured or re-manufactured in a facility UL Listed and FM Approved for the manufacturing of fire pump controllers. Secondly, the controller could not be tested as required to assure safe and proper operation, this would also be in violation of the various approval agencies.



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