



APPLICATION NOTE: 15-001 Exd Housing Seals

**ATTN: JF-1A, JF-1A-HP Sensor Users**

**POTENTIAL O-RING FAILURES OF Exd HOUSING SEALS DUE TO IMPROPER MAINTENANCE INTERVALS**

Dear Customer:

Recently the D-2 Service Group has noticed, during routine calibrations of sensors that have been in the field for periods of 1 year or more, that the O-Rings which seal the Exd Housings provided by Adalet have shown signs of degradation, cracking, and embrittlement. In some longer term field deployments the degradation has progressed to a point where rain water ingress into the Exd housing has occurred. In some instances this degradation and eventual seal failure has resulted in damage to the internal sensor components, requiring costly repairs to the end user.

The ASTM D2624 requires 'annual' calibration of the JF-1A. Units that are returned to D-2 Incorporated for calibration have both Exd Housing O-Ring seals fully inspected and in most cases 'replaced' as a component of the annual calibration.

We strongly recommend that your organization establish a re-calibration program with D-2 Incorporated for this instrument to ensure that sensor both meets the requirements of ASTM D2624, but, also to ensure that a program of active seal inspection and replacement is performed by the factory. We have a certain amount of "loaner" sensors available, such that you can keep your facility operating during factory calibration periods, please consult our sales/service department.

D-2 Service Department