

HR ER PROBES

CD High Resolution ER (Electrical Resistance) Corrosion Probes

Early detection of corrosion plays a pivotal role in establishing and fortifying a robust corrosion control program. Corr-defense's HR ER probes are meticulously crafted and designed to seamlessly integrate with High-Resolution Instrumentation, providing a highly sensitive method for identifying corrosion and erosion occurrences. These probes vigilantly monitor subtle changes in the electrical resistance of metal elements directly exposed to the process.

Operating on a well-established industry technique, HR ER probes detect corrosion or erosion by noting the increase in electrical resistance as the cross-sectional area of the metal element diminishes. Corr-defense HR ER probes feature a reference element constructed from the same material as the measurement element. Encased within the probe body, the reference element remains shielded from the process, facilitating auto-compensation for variations in electrical resistance caused by factors like temperature.



Unlike some alternative technologies, Corr-defense HR ER probes operate independently of process properties, making them suitable for deployment in virtually any environment.

Integration of Corr-defense HR ER probes and High-Resolution instrumentation into integrity management programs enables swift and reliable detection of alterations in corrosion/erosion rates. This empowers operators, integrity, and maintenance teams to optimize corrosion control measures, bolster safety protocols, and extend asset lifespans. Corr-defense offers

ER probes in various configurations to suit diverse monitoring locations and processes. Tubular element probes, renowned for durability and longevity, excel in center-of-line monitoring. Flush probes, designed to align with the pipe wall, are ideal for monitoring top and bottom line areas susceptible to localized corrosion. With a range of mounting options available for both high- and low-pressure systems, many of these probes are retrievable for maintenance and replacement under standard operating conditions using Corr-defense retrieval equipment.



Key Features

- Multiple Mounting Options (High and Low Pressure).
- Ideal for High Pressure 6K PSI and High Temperature Applications.
- Shields available for High Velocity Flow.
- Flush Probe Element available for Bottom of the Line/Pig-able Lines.
- Cylindrical and Flush elements available in a range of materials required and different Probe Spans to suit.

Sample Part Numbering

