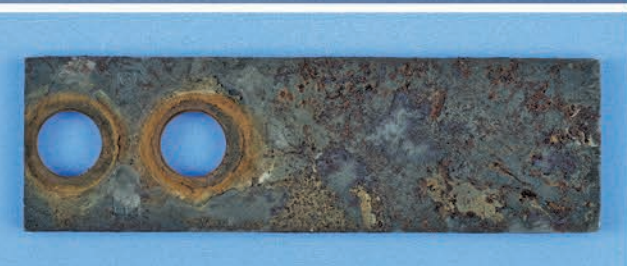


# Metal Samples®



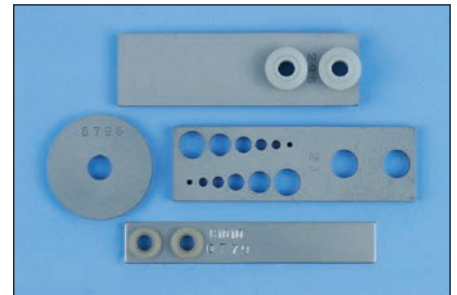
*Corrosion Monitoring Systems*

# Corrosion Monitoring Systems

Since 1980, Metal Samples has been a leading supplier of corrosion monitoring systems worldwide. We offer a complete range of corrosion monitoring products in a variety of materials and sizes to meet your specifications.

## Corrosion Test Coupons

Metal Samples has the world's largest selection of corrosion coupons available in a variety of shapes and sizes and in more than 2,000 alloys. Our coupons come in a number of finishes and are all stamped with the alloy and sequence number.



## Retractable Assemblies



Metal Samples' retractable (packing gland) assemblies are used for systems where ratings up to 2,000 psi are required and leakage is prohibited. These systems do not require line (process) shutdown for insertion or withdrawal.

The Easy Tool Retracting System is used for safe insertion or retraction of probes, coupon insertion systems, and chemical injection systems with pressures over 150 pounds.



## Corrosion Probes

Our broad range of corrosion probes includes electrical resistance (ER), linear polarization resistance (LPR), erosion, hydrogen, biological, and custom-designed probes.

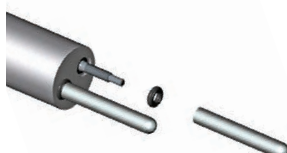


ER Probe Sensing Elements



**Electrical Resistance (ER) Probes** are used in both conductive and non-conductive environments for on-line corrosion monitoring in industries such as refining, oil and gas, and petrochemical.

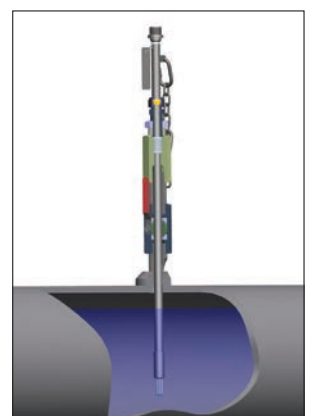
**Linear Polarization Resistance (LPR) Probes** are used in conductive environments such as the water treatment industry to provide instantaneous, on-line corrosion rate readings. Available in 2- and 3-electrode configurations.



LPR Probe (2-Electrode)



LPR Probe (3-Electrode)





## Instrumentation

Metal Samples offers a complete line of ER, LPR and specialized instrumentation to interface with probes and interpret, analyze and display collected data.

Our instrumentation includes portable meters, field transmitters, and data loggers.



## High Pressure Access Systems

We offer both mechanical and hydraulic access systems for high-pressure/temperature systems to insert and retrieve probes, coupons, etc.

Access fitting assemblies consist of an access fitting body, a solid or hollow plug, and a protective cover.



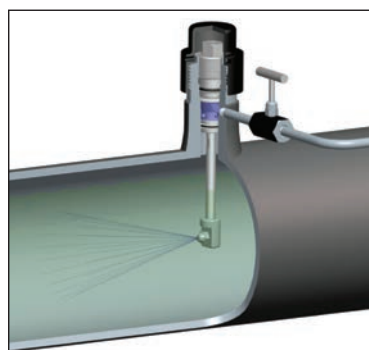
## Retrieval Tool / Service Valve / Hot Tap Tool

When operated with high pressure access systems, the Retrieval Tool and Service Valve allow the installation and retrieval of corrosion monitoring coupon holders, probes, chemical injection equipment, and other devices to be carried out safely and without plant shutdown, at working pressures up to 6,000 psi.

The Hot Tap Tool provides a safe and reliable method of hot tapping newly installed high pressure access fittings on pressurized pipelines.

## Injection & Sampling Systems

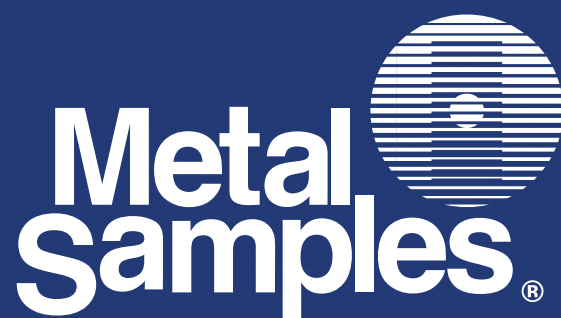
Metal Samples provides injection systems to inject a wide range of chemicals into processes and sampling systems to take samples of the process fluid or medium.



## Non-Intrusive Ultrasonic Systems

Metal Samples' CorrSonic is a non-intrusive ultrasonic corrosion/erosion monitoring system that uses WirelessHART protocol to communicate to SCADA or DCS systems. Available in single or multi-channel systems.





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