IP-U-COR-WD: CORROSION CELL FOR IN-SITU STUDIES ON WELDED JOINTS OR NON-FLAT SURFACES

The **IP-U-COR-WD** is a fully equipped, vertically mounted corrosion cell set-up for direct in-situ measurements on corrosion samples such as polished welded joints, cylindrical pipes and other square, circular, or rectangular coupons. The sample size diameter exposed to the measurement is only 1 mm. Since the current measured here is in pA or nA range, a Potentiostat / Galvanostat with very high accuracy for low current measurements is preferred. Electrochemical Noise or ZRA is a popular corrosion technique. This set-up suits the measurements where test specimen cannot be cut, or if the coupon is non-flat in geometry. Typically, the analysis involves a series of "Spot" type corrosion measurements directly on surface of their specimen. Such analysis is also very popular in checking corrosion propagation in museum artifacts where techniques like SECM is not an option.

Exposed Diameter of Specimen: 1 mm. An O-ring provides reproducible exposed area

Available Volumes: 20 mL

Includes: A 20 mL glass reservoir, a stainless-steel SS430 coupon for sample analysis, and all the other accessories for plug n play analysis.

Related Applications:

- Direct, in-situ and multi-spot corrosion measurements on cylindrical pipes, welded joints, and museum artifacts or coupons that cannot be cut into specimens.
- Typically used in standard testing protocols designed for random quality check of cylindrical or disk-shaped metal coupons.
- Sensitive corrosion studies with leakage proof design

Ordering Information for Recommended Parts:

- IP-U-COR-WD: Corrosion Cell for In-situ studies on Welded Joints or Non-flat surfaces
- MF-2052: Ag/AgCl (3M NaCl) Reference Electrode with Flex. Connector
- MW-4131: Graphite Rod Counter electrode
- MW-1033: Coiled Platinum Wire Counter Electrode