



Take the guesswork out of fluid/metal compatibility...

The DIGIGALV system

Digi_WIN Datasheet

Version 1.6 June.01

**Instant
Screening of
Fluids**

**Adjust fluid
Formulations
And see
Effects in
Real-time**



**Technical
Service**

**Reduced
Development
Time**

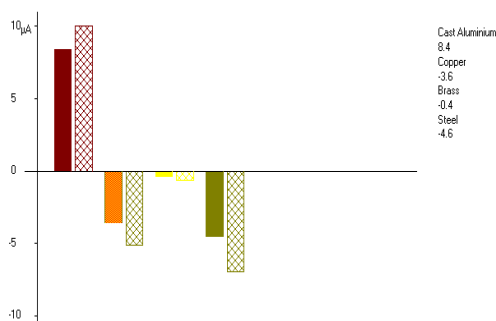
OVERVIEW

The DIGIGALV System is an innovative chemical electronics technique, which offers lubricant developers instant evaluation of corrosion inhibitor performance in machining coolants, and engineering water based fluids.

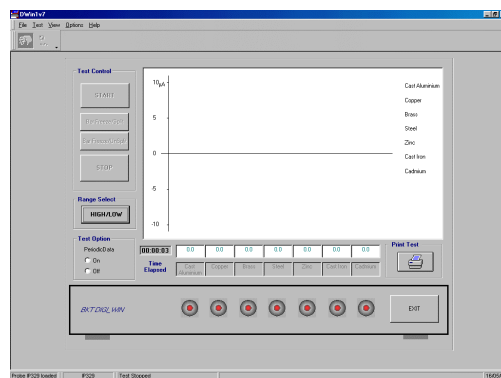


The galvanic interactions of upto seven metals located in a test probe can be instantly evaluated when immersed into a test fluid.

Test probes can be manufactured to emulate standard IP329 and ASTM 1384 tests. The magnitude of the galvanic currents that flow between the test metals is displayed in real-time in a histogram format on the computer screen.



The freeze/split feature allows the user to visualise the effects of inhibitor additions at any point in a test. User interaction allows probe metal channels to be switched in or out from the virtual instrument panel displayed on-screen whilst the test is running.



Current vs Time plots allow persistence testing of inhibitor systems and are typically used to display inhibitor breakdown/oxidation at increased temperatures. The instrument display ranges from 1uA-10uA HIGH and 100uA-1mA in the LOW range settings. Range selection at the click of a button gives the flexibility to test from saline to highly resistive fluid media.

- Automotive antifreeze testing
- Cutting fluids engineering
- Marine and Offshore fire resisting fluids
- Aircraft cleaners and degreasers
- Water based hydraulics
- Steel manufacturing rolling lubricants
- Boiler water treatment

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