
GalvoGill 12

FEATURES

- 12 ZRA's
- 12 RE Buffers
- 4 Current Ranges
- Fail Safe Couple
- Simple Operation
- 7 mA Maximum Current
- 24 Bit ADC's



APPLICATIONS

- C & V Noise
- Galvanic Currents
- Localised Corrosion
- SCC
- Pitting

DESCRIPTION

This instrument measures galvanic currents and couple potentials.

The criteria behind this design was multiple channel, best value, fail-safe and simplicity. Each of the twelve channels comprises two working electrodes (to make the couple) and a reference electrode. The couple is maintained by 12 individual Zero Resistance Ammeters (ZRA's) and the reference electrodes input to 12 very high impedance buffers.

The couple is maintained with mains power on or off as a fail-safe measure. Each ZRA has a maximum current of 7 mA and offers 4 ranges of count resistors, measuring down to 0.2 nA. The measurement of current and voltage is performed by a pair of 24 bit converters running with full mains frequency rejection.

Set-up and running of the experiment is performed via one simple page, reflecting the robust nature of the instruments origin. The maximum read rate is four channels per second which makes the instrument ideal for both current and voltage noise and long term galvanic testing.

A good value, tried and tested design, ideal for very long term experiments and short tests alike.

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Technical Specifications	
Case Dimensions	53 * 18 * 32 cm
Power Supply	110 / 230 VAC 50-60Hz
Weight	10Kg
Electrode Connectors	Gold crocodile to 1.2 M length BNC, or 4mm banana plugs / sockets.
Measurement Accuracy	21 Bit A/D (full mains rejection)
Measurement Resolution	1 μ V \pm 0.0015% nonlinearity
Zero Resistance Ammeter	
Current Range	100 pA to 7 mA (Four Ranges)
Counter Resistors	1K, 10K, 100K, 1M
Input Offset Voltage	Less than 10 μ V
Operational Temperature	-5 °C to 72 °C
Calibrated Temperature	25 °C

Requirements

Operating System - Windows 95, 98, ME, NT4, 2000 or XP (we recommend XP for improved reliability).

Minimum PC Requirements – Standard PC with free serial port, Pentium 100, 64MB RAM (dependant on operating system), 40MB free disc space, CD Rom drive

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