



Instruments

GalvoGill 12

Applications

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



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 (ZRAs) 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.

Galvo Gill 12 Features

Channels - 12 independent ZRAs, 12 RE buffers, fail save couple

Low Noise Susceptibility - optically Isolated from PC, fully shielded, mains rejection measurement, filters on mains power supply

Self Calibration - active self calibration at the start of each test to remove thermal induced offsets.

Power - 110/240vac 50/60Hz

Manuals - A full manual including application notes on CD.

Warranty - 2 years return to base, can be extended to 8 years.

Delivery - to any part of the world typically covered by courier companies.

Technical Specifications	
Case Dimensions	53 * 18 * 32 cm
Power Supply	110 / 230 VAC 50-60Hz
Weight	10Kg
Electrode Connectors	Stainless steel 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 XP SP3, Vista, 7, 8, 10 or 11

Minimum PC Requirements – Any PC capable of running Windows with a free USB or COM/RS232 port.



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