ACM Instruments

Pot 16

FEATURES

- **16 Potentiostats**
- **350 mA per Channel**
- **High Impedance RE**
- **Fixed Potentials**
- **Very Stable**
- **Measure Current**
- **Measure RE**

APPLICATIONS

- **Cathodic Protection**
- **Coating Disbondment**
- **Cracking**
- **Metal Leaching**
- **Quality Control**
- **Standard Tests**

DESCRIPTION

Fixed potentials for parallel potentiostatic tests.

This instrument provides 16 potentiostats for long term testing of electrodes at a fixed potential.
Each channel has a fixed current measurement range, selected on purchase for the type of testing to be performed. The standard range is 350 mA with a resolution of 5 micro Amps.
Up to 4 fixed potentials may be ordered and allocated between the 16 channels at no extra cost. For example channels 1 to 8 could be set to -1.5 V, channels 9 to 11 set to -3 V, channel 12 to 14 set to -3.5 V and 15 to 16 set at -4 V. These potentials are set on internal 25 turn trimming potentiometers and may be changed by the operator if the need arises.
Measurement of the current flowing from each potentiostat and the voltage between RE and WE (as a check on operation) is performed by a pair of 24 bit converters, running at a maximum read rate of 4 channels per second.
The software supplied allows for simple set up of data filename and read rate and displays the latest data recorded. The data is stored on the PC's hard disc as the test progresses. In the event of a power cut the data will be added to the earlier data on resumption of the power supply.
An example of the use of a Pot 16 is in performing tests on coated steel to study the likelihood of cathodic disbondment at a fixed potential.

A dedicated and powerful instrument offering very cost effective fixed potentiostats for long term measurement, each potentiostat is built to the same specification as supplied in the Gill AC.

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Technical Specifications	
Case Dimensions	53 * 18 * 32 cm
Power Supply	110 / 230 VAC 50-60Hz
Weight	8 Kg
Electrode Connectors	Mil-spec Amphenol to gold crocodile 2.5m length.
Measurement Accuracy	21 Bit A/D (full mains rejection)
Measurement Resolution	1 µV ± 0.0015% nonlinearity
Potentiostat	
Current Output	± 350 mA
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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