HAL SERIES

Electrical Safety, AC/DC Hipot, Insulation and Ground Bond Tester with Results Memory



The HAL family is designed to offer advanced automation techniques which can make dramatic improvements in productivity and efficiency of the production line test process.

The isolated floating test outputs make it one, if not the, safest flash/hipot tester on the market. The user interface can be operated manually or in automatic mode, with a barcode scanner to automate the production flow. The HAL family can be linked directly into most ISO quality systems which cover production, laboratory and audit usage.

The HAL family will collect up to 6000 test results internally. These can be downloaded to a PC if required (software is an optional accessory). It will even scan the equipment's barcode under test and produce result labels, making the whole test process accurate, efficient and fast. Test sequences can be automatically configured using a barcode scanner and the tester includes remote start and stop ports. In addition, the HAL family all have RS232 ports, both of which makes the HAL ideal for system intergration.

Key Features

- Earth Bond Test
- AC / DC Flash / Hipot Test
- Insulation Resistance
- Scanner
- Arc Detection
- Visual Alarm
- Audible Alarm
- Storage of test results
- Predefined and custom test sequences
- PLC interface



Web: www.clareinstruments.com Email: sales@clareinstruments.com

Clare

Bracken Hill, South West Industrial Estate, Peterlee, SR8 2SW **Tel:** +44 (0) 191 5863511 **Fax:** +44 (0) 191 5860227

SPECIFICATION

AC Flash / Hipot Test

Voltage Range0.100-5.Voltage Resolution10V / steVoltage Accuracy1% of reMaximum Output Current20mA @Display Current Range0.0-20.0Current Accuracy1% of reDisplay Current Resolution0.01mA

0.100-5.000kV (programmable) 10V / step (settable) 1% of reading +/-2 digits 20mA @5kV 50 / 60hz selectable 0.0-20.00mA 1% of reading +/-2 digits 0.01mA

DC Flash / Hipot Test

Voltage Range0.100 - 6.000Voltage Resolution10V / step (seVoltage Accuracy1% of readingMaximum Output Current10mA @ 6kVDisplay Current Range0.01 - 10.00rCurrent Accuracy1% of readingDisplay Current Resolution0.01mAOutput Ripple<5% @ 6kV</td>

0.100 – 6.000kV (programmable) 10V / step (settable) 1% of reading +/-2 digits 10mA @ 6kV 0.01 – 10.00mA 1% of reading +/-2 digits 0.01mA <5% @ 6kV

Earth / Ground Bond (HAL Combi Only)

DC Insulation Resistance

Arc DetectionDetect Current10 levelsExternal ConnectionsPrinterRS232PCRS232BeaconYesGuard SwitchYes via 3 pin rear connectionScanner Boards (HAL Scan Only)5 (1 pair on front panel, 4 pairs on the rear)

ADDITIONAL INFORMATION



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Optional Extras

Hardware

312A912	Desk Test 'n' Tag Printer
194A922	Barcode Scanner
H-5014	Data Cable
G2/5001	H103 Class I Output Socket Box
H-5009	H101 Class I Output Socket Box
H-5022	H101 Class II Output Socket Box
H-5008	Foot Guard Switch
DCS317	Guard Switch
01521/1	Earth Clip
01520/1	Earth Probe
03919/2	HT Probe - Yellow
03918/2	HT Probe - Red
H-5017	Status Beacon
H-5003	HT - Clip
H-5030	Printer Lead (Desk Test 'n' Tag)

Software

352A910	PATGuard Elite 2 – Premier
352A920	PATGuard Pro 2 – Professional
352A930	PATGuard Lite 2 – Entry level

Service

Onsite or return to base Service Calibration

Order Numbers

H101	HAL
H102	HAL Scan
H103	HAL Combi

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Mechanical

Dimensions Weight 370W x 300H x 204D mm Approx 12kg

Electrical

Supply Voltage Operating Temperature Storage Temperature EN50191 Selectable 115V / 230V 50 or 60Hz 0°C to +40°C -10°C to +60°C Compliant when used with appropriate accessories

Supplied With

Class I Grounded Output Box (HAL Combi only) Guard Plug Earth Probe (HAL Combi only) HT Probe HT Clip Lead, 5 supplied (excluding HAL Combi) Mains Lead Instruction Manual



Seaward test and measurement companies include:



