

# SwitchSmart

Increase safety, efficiency and productivity of your production line testing with the SwitchSmart from Clare.

Used in conjunction with the HAL 104 tester, the SwitchSmart provides the capability for automatic electrical safety testing between multiple test points or testing multiple products simultaneously. This allows for unrivalled speed and efficiency coupled with the high level of safety that the modern production line needs.

Clare has developed a versatile modular eight channel switching matrix which can be used to apply high voltage or high current electrical safety tests to multiple test points or products.

Applications include any equipment which requires testing for Earth / Ground bonding, High Voltage Hipot / Flash or Power leakage.

Each switch port is capable of being programmed to carry out all available test functions the HAL 104 offers.

This has been designed for easy interface with the HAL 104 to allow for a simple yet high specification testing system. The unit can be used with the HAL 104 alone or integrated into larger automation projects.

Used with Safety e-Base there is even greater flexibility allowing bespoke test sequences to be allocated to specific product / part numbers.

## Key Features

- Increase safety, efficiency and productivity
- Improves operator safety from electric shock
- 16 switching ports providing 8 channels
- Up to 256 sequential tests on a single product
- Full electrical testing of 4 products simultaneously
- High voltage, high current capability
- Easy to read LED display understanding which channels are being used
- Up to 5Kv AC or 6Kv DC flash
- Up to 40A Earth Bond
- Full powered leakage capability

## SwitchSmart Users

Most appropriate for medium-large scale electrical manufacturers:

- Production and Manufacturing Engineers/Managers/Directors
- Quality Managers/Directors
- Operations Managers/Directors



## Technical Specification

### Test Terminal Voltage

Range 0 – 5000V AC 50 – 60 Hz  
Duration Unlimited space

### Test Terminal Load Current

Range 0 – 16A per connection  
Duration Unlimited

### Power Supply Requirements

Input Supply 110 – 230V 50 – 60Hz  
3A Maximum

### Rear Panel

2 x 3.15A (HRC) 1¼ inch fuses are mounted on the rear panel and are designed to protect against any internal fault in the control circuit.

A 12 way panel plug provides the interface to input signals and the 12V supply from the HAL 104 control port.

2 x 16 way plugs provide interconnections from the HAL 104 for all test voltages. The input / output connections are arranged in pairs and any pair can be enabled independently in any combination at any time.

### Case Dimensions

370W x 300H x 204D mm

### Standard Accessories

SwitchSmart output test lead (3 phase) assembly  
HAL to SwitchSmart control interconnect assembly  
HAL to SwitchSmart output interconnect assembly  
Instruction Manual

### Related Products

477A910 ClareHAL 104  
482A910 Safety e-Base Software

### Services

1 year warranty subject to product registration with Seaward Service & Calibration by Calibrationhouse

**Part No.** 462A910

