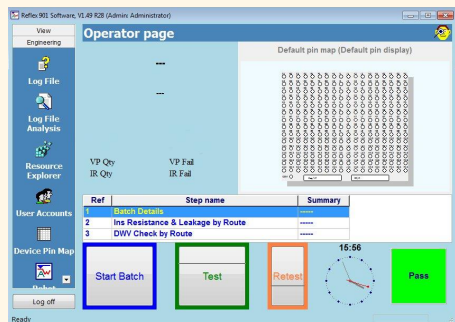


# Reflex 901 DWV, IR Test System



The modular Reflex 901 high voltage test system offers high speed AC and DC dielectric testing of relays or other multi-pin passive devices. Breakdown testing up to 5kV can be performed either as a high speed functional go / no-go test or as a ramp based qualification test.



## Key features

- High precision
- Integral PC compatible controller
- Simple and flexible software
- Expandable for use with dual coil, 6 pole change-over relays
- Comprehensive software package with full data logging
- Optional floating coil power supplies.

## Architecture

A novel test architecture automates Breakdown and Insulation Resistance testing of various combinations of device pins at up to 5kV peak AC or DC. Expandable for pin-pin tests on relays with up-to 2 coils and 6 change-over contacts.

The integral PC controller can be controlled remotely, for example when the Reflex 901 is used in a complex production line set up.

Test data files containing sequences of voltages, measurement conditions and voltage patterns are created, edited and run from within a simple menu based environment.

## Technical Specifications:

- |                                       |   |
|---------------------------------------|---|
| • Leakage measurement                 | Decade ranges 1nA-1mA   |
| • Breakdown detection                 | 8 bit programmable current limit, 4 filter settings                           |
| • Max operating voltage (pk AC or DC) | 5kV   |
| • Parametric connector                | MHV or SHV coaxial  |
| • Supply voltage                      | 110 - 240VAC (selectable)   |
| • Safety                              | Front panel mounted HV interlock  |
| • Dimensions                          | 6U high 19" rack mounting, 500mm deep (an optional desktop case is available) |

Optional integral PC interface:



**Easy to use software:** The software allows test programs to be quickly generated from pre-written 'functional' or 'qualification' tests.

**Self-test:** The software incorporates a comprehensive self-test for system verification.

**Safety:** All high voltage connections are located behind a protective panel for maximum operator safety. Provision for an external high voltage interlock is also provided.

**Functional testing:** High speed production line functional tests make a go/no-go device check by applying a programmed voltage to the specified terminals confirming current levels and pulse widths are not exceeded.

**Qualification testing:** For detailed relay parameter analysis a qualification test can be used to establish the exact point of a "breakdown" event using a test voltage ramp.

**Low leakage design:** By careful attention to guarding and choice of components, the system achieves an inherently low level leakage performance that ensures consistent and reliable insulation resistance measurement. All HV connections are fully screened.

**Floating coil PSU(s):** Dedicated floating coil power supplies allow single/dual coil relays to be energised whilst remaining at high voltage.

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**Remote control:** The PC architecture includes remote access from a host controller when used in a more complex multi-tester production line environment. An optional 24V logic level card may also be provided for device handler interfacing.

**Flexible reporting:** Data can be viewed, printed or exported to print or data log files. Supplied tools allow this data to be selected and inserted into a wide range of spreadsheet and database packages.

**Documentation:** The Reflex 901 comes with comprehensive set of documentation with user friendly context sensitive help.

**Optional front panel indicators:** To ease test program de-bugging, the optional front panel LEDs indicate the detector configuration as well as the current device pin connection to the internal multiplexer.

**Custom solutions:** The architecture has been subdivided into modules which can be re-configured to provide custom solutions.

**General Purpose Test Fixture (GPTF):** this optional test fixture provides an electrically safe environment for device testing at high voltage and with low levels of leakage. The device socket is mounted on a removable board which allows the system to be quickly re-configured for different device styles.

Electrical interlocks ensure maximum operator safety is maintained at all times. An optional mechanical interlock can also be provided to lock the protective cover during testing.

