

RT900 DWV and IR Test System



When used with ART's own parametric relay test systems the RT900 HV test system offers high speed AC and DC dielectric testing of relays or other multi-pin passive devices.



Key features

- Dual test site option for increased throughput
- Fully guarded architecture for best IR accuracy
- Parametric capability when used with RT290
- Expandable for use with dual coil, 4 pole C/O relays
- Comprehensive software package with full data logging

Architecture

A novel test architecture automates Breakdown and Insulation Resistance testing of various combinations of device pins at up to 1.5kV peak AC or DC.

A dual test site option is available for increased throughput. All parametric device connections are fully Kelvin.

Technical Specifications:

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|---|---|
| • Leakage measurement | 7 decade ranges 1nA-1mA |
| • Breakdown detection | 8 bit programmable current limit, 4 filter settings |
| • Max operating voltage (peak AC or DC) | 1.5kV / 3kV (single site), 1.5kV (dual site) |
| • Parametric connector | 60 way Hirose socket / 25 way + 62 way D-type |
| • Device connector(s) | Customer specified |
| • Supply voltage | 100-127VAC / 200-250VAC / 220-300VDC auto selecting |
| • Safety | Two rear panel mounted interlock connections (HV, LV) |
| • Dimensions | 4U high 19" rack mounting, 510mm deep (optional desktop case available) |



Combination of RT900 DWV/IR test system with RT290 parametric relay test system:



Fully guarded: All device connections are fully guarded for maximum insulation resistance accuracy.

Easy DUT adaptor replacement: Should there be a need to use a different front panel connector style, the DUT panel has been made removable. Four safety Torx screws secure the front panel to the system.

TEST switch and indicator lamps: The test fixture is fitted with local device PASS, FAIL indication along with a test start switch for basic operation.

Manuals: The RT900 comes with comprehensive set of hardware and software manuals detailing all aspects of the unit including full circuit diagrams.

Applied Relay Testing Ltd also offer the Reflex 901, an DWV/IR test system with a typical working voltage of 5kV peak AC or DC and extended leakage current ranges.

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On-line documentation: All software documentation is also provided in 'on-line' form. One key-press calls up test and operational information in a context sensitive display. Documentation includes 'How to construct test programs', 'Frequently asked questions' and hardware interfacing information.

Menu-based software: Test sequences are simple clear and built from pre-written test types.

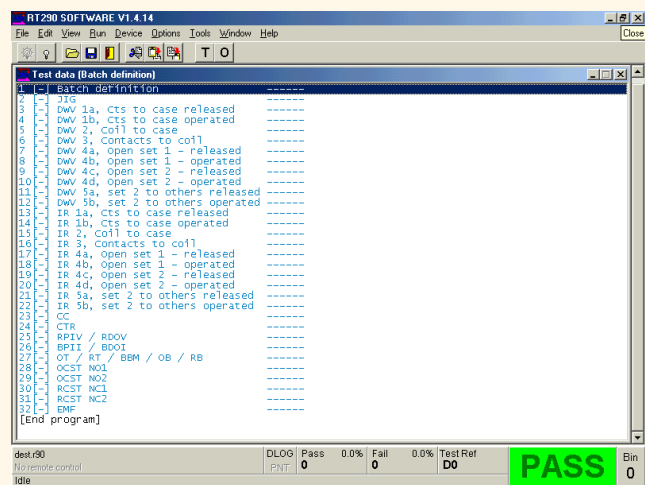
Flexible reporting: Data can be viewed, printed or exported to print or data log files. Supplied tools allow this data to be selected and inserted into a wide range of spreadsheet and database packages.

Safety interlock: For safety the RT900 comes with the facility for external HV or LV interlocking plus additional hardware grounding of the unused device on dual site versions.

Fully Kelvin device connections: All parametric connections to device pins are 4-terminal (Kelvin). When used with suitable equipment (e.g. RT290) loop resistance (continuity) can be measured to confirm correct device insertion before test.

Spread-sheet style programming: Test conditions can be expressions as well as fixed values.

Screen shot of typical DWV/IR test program:



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