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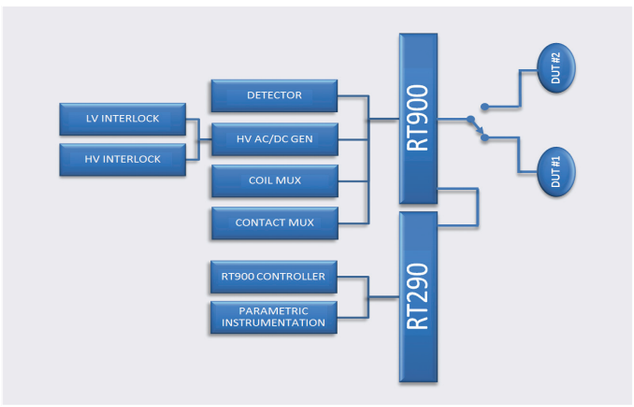
RT900 – DWV & IR TEST SYSTEM

High Voltage Test



When used with ART's RT290 parametric relay test system, the RT900 HV test system extends the relay test capability adding high speed AC and DC dielectric withstand voltage (D.W.V.) and insulation resistance (I.R.) testing for relays or other multi-pin passive devices.

Key Features

- Fully guarded architecture for best I.R. accuracy
- Parametric capability when used with RT290
- Expandable for use with dual coil, 4 pole C/O relays
- Dual test site option for increased throughput
- Comprehensive software package with full data logging
- Turn-key software includes pre-written device tests to CECC, IEC and custom
- Automatic self-test and calibration built-in with laboratory traceability
- Test program compatibility with ART parametric test systems
- 19" rack mounting

Overview

A novel test architecture automates Breakdown and Insulation Resistance testing of various combinations of device pins at up to 1,500 V peak AC or DC.

Single and dual test site front panel connector options are available. ART can customise the front panel connectors if necessary to interface with existing customer device adaptors. The dual test site option allows for increased throughput where one relay can be loaded into the test socket whilst another relay is being tested. The single test site option can be used with ART's general purpose test fixture GPTF.

All parametric device connections are fully Kelvin (4 terminal).

Current ranges	1 nA, 10 nA, 100 nA, 1 uA, 10 uA, 100 uA, 1 mA
Operating voltage	0 to 1,500 Vdc, 0 to 1,000 Vac
Device connectors	Customer specified
Safety	Rear panel H.V. and L.V. interlocks
Dimensions	4U 19" rack mounting, 510 mm (20") deep

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High Voltage Test

Product Features

Kelvin (4 terminal) connections
All coil and contact connections are 4-terminal (Kelvin) with loop resistance (continuity) measured to confirm correct device insertion before test.

Full guarding
All device connections are fully guarded for maximum insulation resistance accuracy.

Ease of use
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.

Local test lamps and switches
The test fixture is fitted with local device PASS, FAIL indication along with a test start and re-test switch for basic operation.

Self-test and calibration
Comprehensive built-in self test and fault diagnostics capability. A front panel mounted high-precision standards card can be quickly removed for traceability.

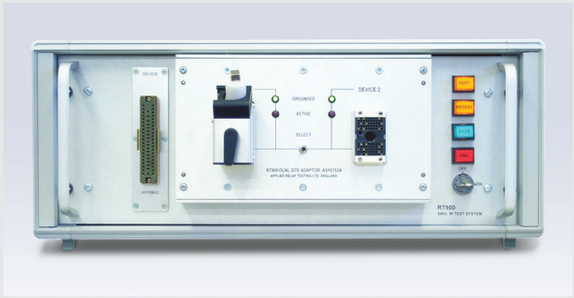
Menu based software
Test sequences are simple, clear and built from pre-written test types to CECC, IEC or custom formats using menu selection. A 'Relay Wizard' macro allows a complete device test to be built from a few simple questions and answers. Test sequences can be run, re-tested, cycled or step-executed to enable fast development of a test program. Test conditions can be expressions as well as fixed values for spread sheet style programming.

Flexible reporting
Data can be viewed, printed or exported to print or data-log files, this data can then be inserted into a wide range of spread sheet and database packages. The integrated report generator package can be used to automatically generate customisable Microsoft Word™ based reports.

On-line documentation
All hardware and software documentation is supplied in an 'on-line' form. One key-press calls up test and operational information in a context-sensitive display.

Designed for the 'factory floor'
The 19" rack mountable system is designed for harsh environments.

Safety interlocks
The RT900 comes with the facility for external HV or LV interlocking plus additional hardware grounding of the unused device on dual site versions. The interlocks may be used in conjunction with existing customer mechanical shutters, light curtains etc to ensure maximum operator safety.



Dual site version

Front panel options
The RT900 features a removable panel which connects to the internal multiplexer outputs and control signals using gold plated spring probes mounted in low leakage PTFE (Teflon ®) blocks. The panel is available with connectors to suit either single or dual site outputs. The single site option may be used with the GPTF (see below).

H.V. adapters
The General Purpose Test Fixture, GPTF is available for use with the RT900 where a turn-key high voltage adaptor solution is required featuring mechanical and electrical operator safety interlock mechanisms. Please contact ART for more information.

General purpose high voltage test fixture GPTF

See also:
Reflex 901B High voltage DWR, IR test system

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