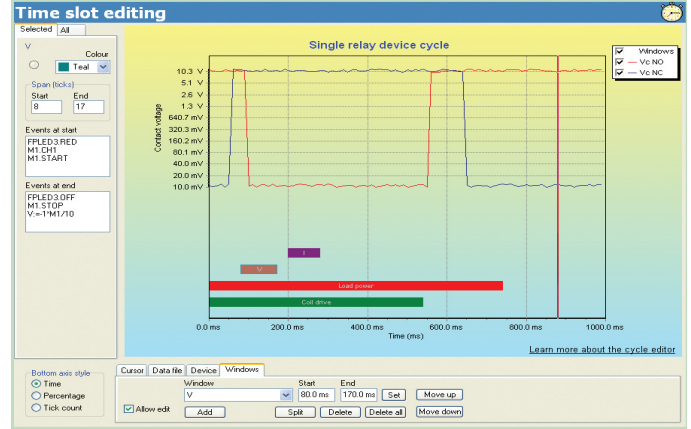


# REFLEX 51 – RELAY LIFE TEST SYSTEM

Life Test



A broad range of MIL specification life test hardware and software modules designed to enable any relay life test application to be easily and quickly configured, no matter how large or small from a laboratory life test solutions to the upgrading of existing in-house life testers or the building of a completely new in-house life test system.

## Key Features

- Completely modular
- Easily reconfigurable
- High-Speed ADC per contact
- AC/DC power switching modules
- Contact timing option
- Easy-to-use graphical operator interface
- Automatic report generator
- Export results in Excel format
- The system is suitable for testing small, medium and power relays to meet the needs of GM-9111P, EN116000-3, MIL-R-83536/A, MIL-PRF-6106K and MIL-R-39016E.

## Overview

The Reflex 51 complements the ART range of life test equipment to provide a highly configurable relay cycling system capable of performing and recording contact voltage drop / resistance measurements on each contact operation. In addition contact timing and pull in / drop out measurements can be performed on an interval basis if required.

The system can be used with customer supplied power supplies / contact loads or alternatively these can be provided should a completely turnkey solution be required.

Contact loads	0 to 1kV, 0 to 100 Amps, uses external PSU
Coil drive	AC / DC as required, uses external PSU
Cycle rate	0.0001 Hz to 100 Hz
Coil types	Monostable / single or dual coil latching
Options	Contact timing / Pull - in and drop -out

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## Product Features

### Build versions:

#### Sub rack

The sub rack unit is ideally suited to laboratory use where the system configuration will be changed regularly for different contact load types. The sub rack version uses a cut down backplane which can accommodate up to 16 measurement channels.

#### Full rack

The full rack version is suited where the maximum number of contacts to test exceeds that of the sub rack variant or for more complex systems with internal loads etc.

### Front panel display

An optional LCD display can be mounted to the Reflex 51 front panel which shows a summary of the life test progress. A number of user configurable front panel LEDs can also be used to display such information as load switching, coil state etc.

### Conditioning modules

The measurement modules may be interfaced to the contact environment using suitable voltage conditioning modules. These modules provide voltage protection circuitry and optionally additional amplification / attenuation. Measurement accuracy can be optimised by locating them close to the contacts being tested.

### Switch modules

ART offers a broad range of custom designed AC/DC switch modules which can be used to control contact loads and device coils.



Example: Switch and Conditioning Modules

### Artworks software suite

A comprehensive software suite is supplied with the system which provides all the functionality to configure the system using a user friendly graphical interface and to run the life test.

### Graphical interface

A simple interface provides visual indication and easy editing of the device cycle control and measurement activity.

### 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 customised Microsoft Word based reports.

### Built-in functional check

Internal hardware adds capability for system performance verification.

### Self-test and traceability calibration pack

The system features built-in functional test capability for routine confidence checking. A calibration module is available to semi-automate the full calibration procedure.

### PC controller

A host PC is used to configure the start of the life test and to routinely collect the life test data during the course of the test. The software allows the user to display the life test results for any of the modules to which it is connected. The system can be supplied either with an integrated or external controller as required.



Example: Built-in manual control tool



See also:  
Reflex 40 Stick and miss test system