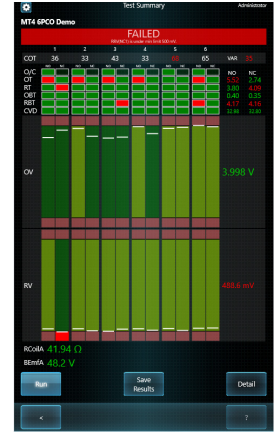
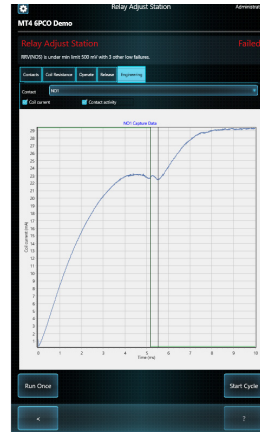


RAS 5 – RELAY ADJUST SYSTEM

Low Voltage Test



The RAS 5 and touch screen forms a stand-alone relay test system which is ideally suited to real-time hands-free parametric testing whilst the user is making internal adjustments to the device contacts prior to encapsulation.

Key Features

- Handles a wide range of relay devices up to 6 pole form C
- Drives relays with AC or DC coils
- Performs a wide range of parametric tests
- Simple operator interface via the supplied touch screen monitor and optional foot pedals
- Built-in processor with HDMI output
- Full SQL database logging
- Windows MIDAS software tool for report generation
- Can be easily upgraded via a USB stick to add future software enhancements if required
- Compact vertical design

Overview

The RAS 5 complements the ART range of test equipment to provide high quality test capability on manual production lines where an operator is required to make internal adjustments to the device contacts. The system measures key parameters such as coil/contact resistance, pull-in/drop-out voltage, timing etc.

Up to four foot pedals can be attached which provide hands-free test system control, maximising device adjustment accuracy and speed.

Touch-screen operation

Supplied with an HDMI touch screen monitor, operators can quickly and easily select and run pre-written test programs. A simple graphical operator page provides instant indication of key coil and contact parameters, assisting with manual adjustment of devices.

Internal contact loads	24V/10mA
Max no. contacts	6PCO
Coil types	Mono-stable / single or dual coil latching
DC coil drive	0 - 80V / 400V, 5W
AC coil drive	0 - 56V / 0 - 280V rms 50 / 60 / 400Hz, 5W
Device interface	Industry standard D sub connectors



Product Features

Wide range of device types

Handles devices with DC or AC mono-stable coil or DC bi-stable (single and dual coil) mechanical devices up to 6-pole changeover contacts without additional test equipment. Includes drive for devices with integral transistors/FETs.

Kelvin device connections

All contact connections are 4-terminal (Kelvin) when supplied with the 15 way & 37 way D sub connector interface. A non Kelvin option is available using a single 37 way D sub connector.

Software programming

Customisation for the key test program parameters is performed using an Microsoft Excel spreadsheet on any standard Windows PC. The spreadsheet is then be saved to the RAS 5 system using a USB memory stick.

Available test types

The following tests are available:

- Contact timing
- Operate/Release voltage
- Contact resistance
- Contact voltage drop
- Contact stabilisation time
- Contact over-travel
- Coil resistance
- Coil Current
- Diode (across coil) detection
- Back EMF

If you require a test type which is not listed above, please contact Applied Relay Testing.

Customisable report generation

The Windows based MIDAS development software includes a tool to provide report generation from exported test data.

Real-time on screen contact status

A visual indication of the contact open/closed status is available to assist contact adjustment.

Monitoring interface

This connector provides test points across any device contact for external monitoring on an oscilloscope or voltmeter.

Built-in functional check

Internal hardware adds capability for system performance verification.



Rear view of system (shown with the desk mounting plates fitted)

External power supply

The RAS 5 system is powered by an external universal input 12 volt DC supply.

Compact design

The system is housed in a compact vertical tower case which may alternatively be mounted horizontally. Desk mounting plates are provided to allow the unit to be secured to the work surface if required.

Dimensions

162mm x 285mm x 323mm / 6.4" x 11.2" x 12.7" (WxDxH)

Weight

3.4 kg / 7.5 lbs

Hardware options list

Foot pedals

A pair of manually operated foot pedals provide customisable control of relay operations such as cycling a test, single test etc. Up to 2 pairs of foot pedals may be connected to the system.

Calibration

A semi-automated calibration / self- test module, ASY0270, is available for system calibration (see below).



A semi-automated calibration/self-test module ASY0270