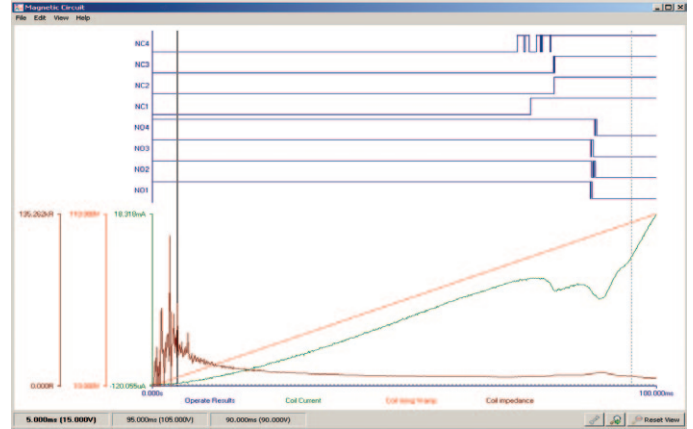


ASY0910 – AC/DC COIL PSU

Accessories



The ASY0910 provides AC and DC coil drive capability for ART's Reflex 510 parametric relay test system for single and dual coil relays. An optional internal high current AC contact load power may also be specified.

Key Features

- Provides both AC and DC coil drive capability
- Turn key solution for Reflex 510 users
- Software programmable
- Optional high current AC contact load PSU and front panel mounting LED ammeter
- Optional drive outputs for transistor / FET / timing control
- Safety interlock
- USB temperature probe interface
- Slim 3U 19" rack mounting
- 12 Volt D.C. PSU to supply main Reflex 510 system power
- Supplied with documentation and screened cables

Overview

The ASY0910 is designed to be used in conjunction with a Reflex 510 parametric relay test system to provide AC and DC coil drive capability. The system is controlled by dedicated interface modules fitted to the Reflex measurement backplane.

A 24 Volt AC high power contact load may be included if required which can be programmed for either a 5 Amp or a 10 Amp load current using solid state switching. A front panel meter shows the measured contact load current.

A general purpose front panel connection is provided for use with a USB temperature probe for software correction of the measured coil current to data sheet temperature values.

An internal 12 Volt PSU provides the main power source to the Reflex 510 system.

Coil types	Monostable / single or dual coil latching
DC coil drive	0 – 80V / 400mA (0-370 V option)
AC coil drive	0 – 280Vrms / 10 W @ 50, 60 or 400 Hz
AC contact load (option)	24 Vrms, 5 and 10 Amps
Dimensions	19" rack mounting, 3U high, 525mm (D)
Weight	15 kg (33 lb)

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Product Features

System architecture

The ASY0910 is controlled by a host Reflex 510 relay test system using two dedicated interface modules fitted in the host measurement rack. A third interface for current range selection is required when the contact load power supply option is fitted. These controls are:

- ASY5763-PP - digital interface
- ASY5758 - analogue interface
- ASY5739 - 5 / 10 A contact current select (optional)

The internal 12 Volt DC can also be used to provide the main system power requirements for the Reflex test system thus obviating the need for a separate power brick.

Coil output

The unit is designed to be able to control a wide variety of single and dual coil AC and DC relays. The power supply output ranges are shown below.

AC output:

- 0 - 35, 0 - 70, 0 - 140, 0 - 280 Vrms
- 50 / 60 / 400 Hz
- 10 Watt

DC output:

- 0 - 80, 0 - 370 Vdc
- 0 - 400 mA

Coil control pin (optional)

An additional pair of DUT interface controls can be specified which may be used to control single or dual coil FET or transistor controlled relays or for the connection to timing which use a separate control pin.

Contact load (optional)

The unit can be provided with 24 Vrms AC contact load which has a selectable contact current output of 5 or 10 Amp. A front panel LED display gives a visual indication of the contact current in addition to the contact current measurement capability built into the Reflex test system. A rear panel rotary switch allows the output current to be calibrated to compensate for different fixture cable resistances.

Software

The unit is designed to work seamlessly with the Artworks test system interface. All coil power supply parameters are controlled and measured using ART's standard test program steps which means test programs may be shared between ART's broad range of parametric relay test systems.

Reflex system power

The internal 12 V DC power supply provides the main system power supply for the host Reflex system thus the standard Reflex power brick is not required when used with the ASY0910.

Calibration

The unit can be calibrated easily (with the aid of a suitable precision volt meter) using the optional ASY0895 ADC calibration cable which plugs into a dedicated rear panel calibration connector. The calibration procedure is fully documented in the technical manual ASY0915A which is included as standard with the power supply.

Cabling

All the necessary cabling to connect the module to the parametric test system is supplied with the unit.

Signal quality

The case uses earth bonded all-steel construction to provide a high level of electrical screening from external noise sources. All low level parametric signal wires are fully screened.

Safety

A pair of low voltage interlock connections may be used by the customer to disable the high voltage coil power supply output drive.

Hardware options list

Bench top case

Grey two tone 19" 3U bench top case.
Order code: Case-3U

USB temperature probe

Allows for coil current correction to data sheet temperature.
Order code: USB-TP

Calibration cable

System ADC calibration cable.
Order code: ASY0895



See also:
Reflex 510 parametric relay test system.