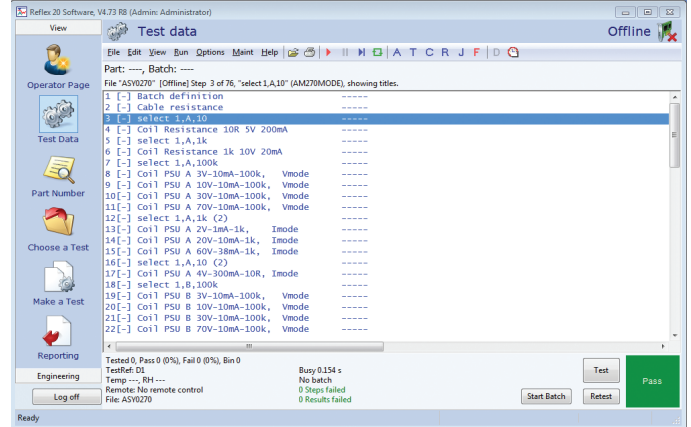
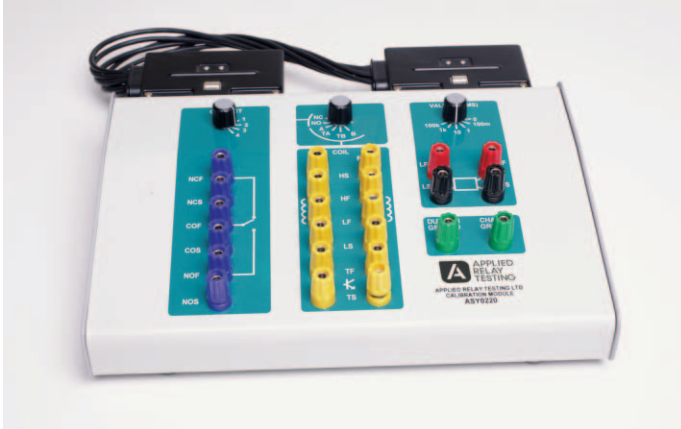


ASY0220 MANUAL CALIBRATION MODULE

Calibration



The Manual Calibration module (ASY0220) complements ART's range of parametric test systems including the RT290 and Reflex range providing a convenient calibration tool to greatly reduce set up times when performing contact resistance and coil parameter calibration and verification.

Key Features

- Easy to use
- Supplied with interface cable and user manual
- Uses high quality 2 and 4 terminal resistors
- Single fully screened interface cable provides power, parametric connections and control
- User prompts for range, route selection from within parametric system software
- Connects to standard 5 1/2 digit multimeter
- For use with ART's parametric relay test systems with up to two coils and 4 C/O contacts
- Comprehensive set of 4mm terminals
- Rugged construction

Overview

Provides a convenient means of applying precision resistors to the various coil and contact connections on the device interface connector of ART's parametric test systems. It provides an alternative to using the semi-automatic Autocal ASY0270 calibration module for the lowest cost solution.

The unit provides three rotary switches which route precision resistors to the parametric system during the calibration process and for accuracy verification.

The Artworks calibration software can be configured to prompt the operator to configure the route and ranges switches as appropriate.

Only a few simple voltage measurements are required to the easily accessible test points to perform basic system calibration.

2 Terminal ranges (Ohms)	1k, 100k 0.1%
4 Terminal ranges (Ohms)	0 ±0.02m, 100m ±0.05%, 1 ±0.02%, 10 ±0.01%
System interface connector	60 way Hirose
Routes	4PCO, dual active coils, device case
Dimensions	285 x 225 x 75 mm (11.2" x 8.8" x 3")
Weight	2.5 kg (5.5 lbs)

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Product Features

Parametric system connection

The ASY0220 manual calibration module unit offers simple system and cost effective calibration and verification tool when used in conjunction with ART's Reflex parametric systems and a precision Voltmeter (not supplied),



Example: ASY0220 connected to Reflex 10

The ASY0220 allows the user to calibrate or verify the following connections from the parametric test system:

- Contact resistance on NC and NO connections on contacts #1 to #4
- Coil current / resistance on set and reset coils
- Coil current / resistance on set and reset coils
- Base / gate current for active coil drive systems
- Base / gate voltage for active coil drive systems

Note that this module performs no contact timing verification. If this is required the use of the ASY0270 Autocal module is recommended.

Step by step calibration

The calibration and functional verification tests built into the ART parametric test systems Artworks software, guide the user through a sequence of ASY0220 switch configurations.

Fully Kelvin device connections

All coil and contact connections are 4-terminal (Kelvin). High quality 4 terminal resistors are used on the wiring resistance sensitive ranges of 10 ohms and below with precision 2 terminal resistors used on the other ranges.

Slave connector

A second device connector fitted to the rear panel allows the device connections to be separately monitored if required or may be used to aid debugging with a relay test fixture.

Comprehensive test points

All test points are easily accessible, colour coded 4 mm screw terminals. The built-in high-precision standards are easily accessible via these front panel terminals for routine verification of the internal standards using a calibrated 5 1/2 digit resistance meter (not supplied).

Signal quality

The earth bonded all-steel construction provides a high level of screening. Additionally all parametric signals are fully screened to optimise signal quality in electrically noisy environments.

Items supplied

The unit is supplied with a user manual and a suitable high quality mating cable for use with the parametric test system.

Low maintenance

High quality switches and sturdy all-steel construction ensure maximum durability. Rubber feet prevent damage to work surface and reduce slipping.

Portable

The unit can be installed in seconds to provide rapid relay test system self test. A single ASY0220 unit can be shared between many systems across the shop floor with minimum inconvenience.



See also:
ASY0270 Autocal
calibration module