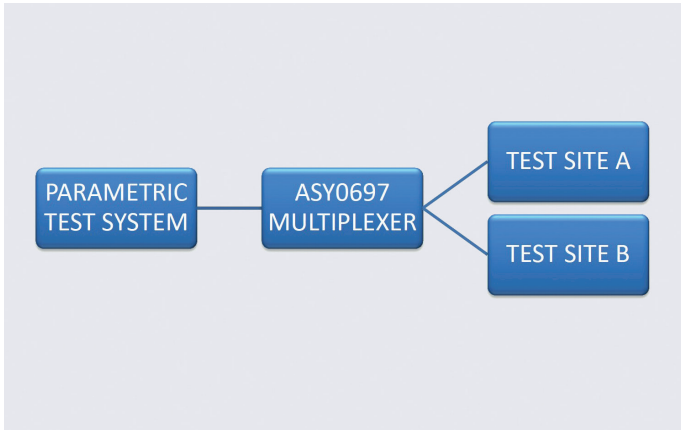


ASY0697 – DUAL SITE MULTIPLEXER

Fixturing



The ASY0697 device multiplexer works in conjunction with ART parametric relay test systems to allow up to two device fixtures to be connected to a single test system. Front panel switches provide either manual site control or automatic control via the test program environment.

Key Features

- Device pin multiplexing between test system and up to 2 device fixtures
- Turn key solution for RT290 and Reflex users
- Automatic or manual operation
- Automatic mode controlled by test step within relay test program
- High quality reed relays used in device contact paths
- Power and control signals via relay test system device connection
- Compact, all metal construction - excellent electrical screening characteristics
- Supplied with documentation and cables

Overview

The ASY0697 device multiplexer allows two device fixtures to be connected to a single test system. Front panel switches provide the configuration of the unit for either manual site control or automatic control using handler port controls.

The unit multiplexes the coil and contact connections from the parametric system to the fixtures using high quality reed relays for the contact routing. In addition it also multiplexes the handler signals including, test fixture interface controls such as those for the Pass, Fail lamps and Test and Retest switches.

All power to control the unit is taken from the parametric device system. By default the unit is configured to route the basic fixture controls PASS, FAIL, BUSY, SOLENOID, TEST, RETEST from the Device connector. Note that these signals may alternatively be taken from the handler connector if required.

Modes	Manual (switch), Automatic (software)
Maximum test sites	2
Coil switching	380 Vdc / 1 Amp
Contact switching	200 Vdc / 1 Amp
Dimensions	275(W) x 178(D) x 68(H) (10.8" x 7" x 2.7")
Weight	1.9 kg (4.2 lb)

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Product Features

Manual mode

A front panel toggle switch is used to configure the ASY0697 multiplexer into either Automatic or Manual mode. In manual mode a second front panel switch allows the operator to select between connecting the parametric test system to either the 'A' or 'B' test sites.

Automatic mode

This mode is selected whenever the front panel Manual / Auto toggle switch is set to 'Auto'. The unit is then controlled from the Artworks test software environment via the (handler) PORT test step. This allows the unit to be switched as required at the beginning or during the test program sequence. The switching can also be made conditional if required.

Front panel indicators

Two LED indicators are mounted on the front panel to clearly show the status of the multiplexer.

Connectors

All connections to the module are made using standard subminiature D-type connectors:

- 25 pin D-type – device coil and basic fixture controls
- 62 pin D-type – device contact and serial data bus
- 37 pin D-type – handler port controls.

Cabling

All the necessary cabling to connect the multiplexer to the parametric test system is supplied with the unit. Please specify the test system to be used at the time of purchase to ensure the correct interface cables are supplied. Note that if using the 'Auto' mode with the Reflex 10 or 10M, the Handler option will be required.

Kelvin connections

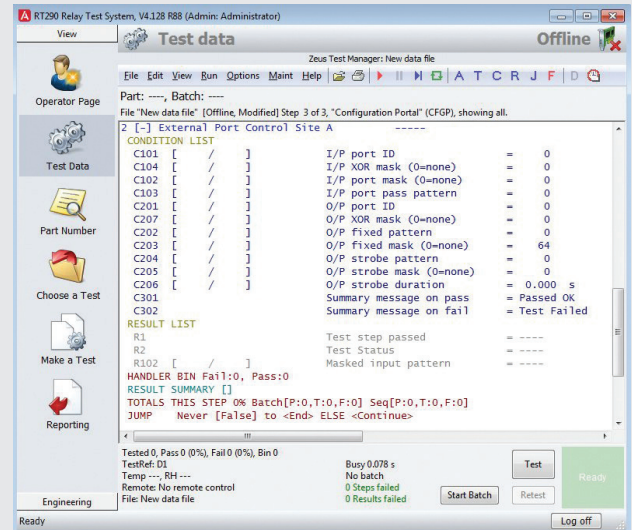
All contact multiplexing is designed to give a 4 terminal device connection. Coil connections will be either 2 or 4 terminal as defined by the parametric test system capability.

Handler signals

In addition to multiplexing coil and contact connections up to 2 coils and 8 changeover contacts, the unit also multiplexes the handler signals which are present on the parametric system front panel DEVICE connector. These are Pass, Fail, Test, Retest, Busy and Solenoid. Optionally the handler signals can be taken from the Handler port connector if fitted. The module also multiplexes the proprietary ART serial communication bus so that other accessories such as the Autocal calibration module can be used.

Signal quality

All device contact signal switching is performed using high quality reed relays designed to provide minimal signal degradation through the multiplexer unit. In addition the case uses earth bonded all-steel construction to provide a high level of electrical screening from external noise sources. All parametric signal wires are fully screened.



Example: Configuration portal test step

Power supply

All power to the unit is taken from the parametric test system, therefore no additional power supply is required.

Other uses

Although primarily designed to multiplex the coil and contact connects between two device test sites, the unit can also be used for more general purpose multiplexing requirements. Please contact Applied Relay Testing Ltd for more information.



See also:
ASY0725 Device multiplexer
for multiplexing between coil
and contacts.