

# Selftest Scanner Module - E2010 Series

- FACILITATES SYSTEM SELFTEST DOWN TO MODULE LEVEL
- 14 SCANNER RELAY CHANNELS PER MODULE (100V)
- 10 FREE RELAYS (4A)

The Selftest Scanner Module is a dual purpose instrument. It acts as a reference and switching module for system Selftest, which is used in conjunction with a Selftest fixture and Selftest software. When the Relay Scanner is not in use as a Selftest application, it is available to be used as a general purpose scanning and switching card. The Relay Scanners in-built selftest is an essential component for “down” time minimization in any high volume manufacturing facility. This is available as an RE2010 module which is for a 6U high rack or as a 1U standalone Ethernet Instrument.

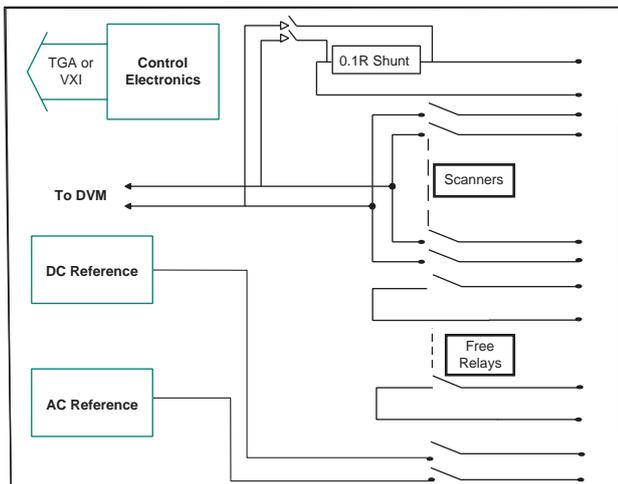
The Selftest facility is designed to help diagnose a failure down to the module level and in many cases component level. For example; checking system free relays will test each individual relay in both the open and closed position and identify a specific faulty relay on a free relay module.

Components of the Selftest option include:

- (1) E2010 Selftest Scanner Module
- (2) System Selftest Fixture
- (3) Selftest Software Package

The system Selftest fixture does not contain any active electronic components. Its purpose is to interconnect various parts of the system across the front panel; use of a simple passive (wiring only) Selftest fixture ensures a reliable Selftest option.

The Selftest software is structured in a modular fashion to check each of the “sub-systems” in the overall E2010 configuration. For example a separate check exists for DC sources, AC sources, Loads, Relays and so on.



RE2010  
Selftest Scanner Module Diagram  
721-0040



E2010  
Selftest Scanner Module Diagram  
722-0040

The Selftest software will setup the E2010 Selftest Scanner Module to provide the relevant stimulus for each test block in Selftest. Selftest will generally checkout the complete chain of modules involved in a sub-system. One example would be, checking a system DC source, Selftest will control the DC source driver card and (via the Selftest fixture) connect the output of the source back to a suitable measurement unit and verify the programmed source voltage level. This verifies that not only is the driver card and DC source functional but that the wiring from the driver card to the source and the wiring from the source to the front panel is also operational.

The E2010 Selftest Scanner Module is designed for simple plug in insertion into an E2010 rack. Connection is via one 50 Way D Type connector and two 25 Way D Type connectors.

# Technical Specifications

Circuit Functions	
Reference	5VDC/2.5VDC
Sine Reference	8Vpp@1.25kHz
Triangle Wave	8Vpp@1.25kHz
Square Wave1	24Vpp@1.25kHz
DC Pull-up	12V@150mA
Current Shunt	0.11WOhm±1%
Scanner Relays	14 channels per module (100V@100mA)
Free Relays	10 relays per module (30VDC@4Amps)
Module Characteristics	
Dimensions	261mm(H) x 220mm(D) x 50mm(W)
Operating Temperature	5°C to 40°C
Storage Temperature	-25° to 70°C
Humidity	10% to 85% relative non condensing
Ordering Information	
Part Number	721-0040 (for a 6U Rack) 722-0040 (for a 1U Assembly)
Description	E2010 Selftest Scanner

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