

TEST RESULTS[®]

Test Results[®], is a company news periodical published by Overton Instruments (Oi), to highlight new products, special events and noteworthy Functional Test solutions. Customer names may be disguised for identity protection. 3/20/16

Versatile Relay Switching Solutions from (Oi), fully automate repetitive measurements...

Presented by,
Overton Claborne Sr
(Oi) Founder & CEO



In the time it takes for a technician to probe a single test point, relay modules from OVERTON INSTRUMENTS (Oi), can switch 100's of test points. But switching speed is not the only benefit, (Oi) products offer tremendous versatility, flexibility, scalability and affordability. Test Engineers purchase our products to satisfy a diverse range of custom signal switching applications. In most cases, the cost per module can be as much as 60% less than a comparable PC-based test instrument. The table on the right shows a partial list of (Oi) relay configurations.

Relay Switching Solutions, is a special group of Test Instrument Modules™, that are part of the innovative ETS SERIES, EMBEDDED TEST SOLUTIONS. The ETS Series' products are designed for embedded operation which include direct installation inside Mechanical Test Fixtures, build custom desktop test equipment or support larger ATE test systems. The ETS Series' are board-level instrument modules that include a standard form factor (just 2.50" x 2.75"). These modules are controlled by an external PC (via an optional USB interface), or with one of our unique EMBEDDED TEST CONTROLLERS (i.e., the Pico-MATE). In either case, programming our instrument modules is both simple and fast. In addition to our popular relay modules, the ETS Series' products also include functions that perform Analog Conversion, Digital I/O and Special Function capabilities.

The two diagrams below highlight the typical application possibilities for (Oi) Relay Switching Solutions. The MUX-MATE is a 16 channel signal multiplexer that is used to route DUT (device-under-test), test points to an external DMM for measurement. The Switch-MATE/HC is 4 port 10A relay configuration, that is designed to switch high-current loads. *Need to expand?* We created the **SEM-MATE™**, Switching Expansion Module, it allows you to control any combination of '8' (Oi) switching modules as a single group. We are also working on a awesome collection of RF switching instruments to support WiFi product test as well.

(OI) RELAY SWITCHING SOLUTIONS

SWITCH-MATE^(vi)
8-SPST Relay Module

SWITCH-MATE/HC^(vi)
4-SPST, 10A High Current Relay Module

SWITCH-MATE/HP^(vi)
8-SPST, High Performance Relay Module

SWITCH-MATE/HV^(vi)
8-SPST, High Voltage Relay Module

RELAY-MATE^(vi)
8-DPDT Relay Module

RELAY-MATE/HC^(vi)
4-DPST, High Current Relay Module

RELAY-MATE/HP^(vi)
8-DPDT, High Performance Relay Module

MUX-MATE^(vi)
16-Ch Signal Multiplexer Module

MUX-MATE/HP^(vi)
16-Ch Signal Multiplexer,
High Performance Module

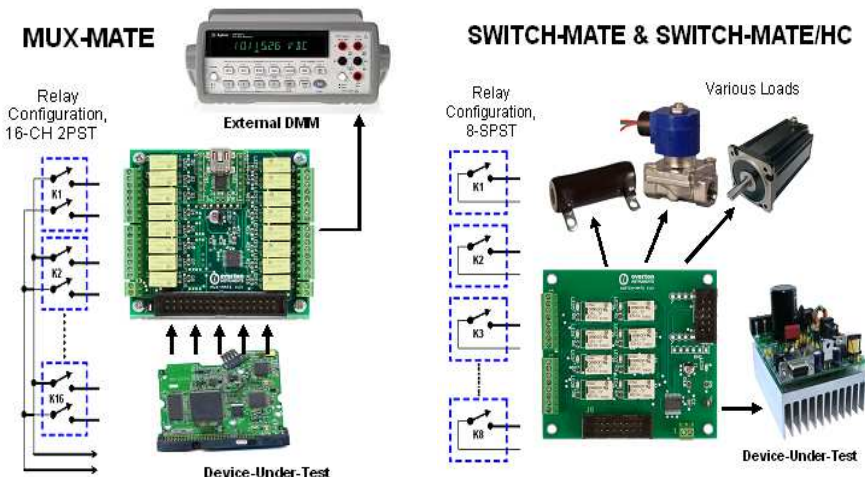
MATRIX-MATE^(vi)
4X4 Relay Matrix Module

4WIRE-MATE^(vi)
4-CH Signal Multiplexer Module



Mohammad Sabety
Vice President Engineering
ACCULOGIC, INC
Toronto, Canada

Recently (Oi) was honored to receive "Approved Vendor Status" from Mohammad Sabety at Acculogic. This company designs, manufactures, and markets a broad range of systems for testing electronic devices. Acculogic purchase's (Oi) products to support its custom Functional Test development group. According to Mohammad, "(Oi) instrument modules make a significant contribution to our efforts to deliver high-quality test solutions to our customer base". You can visit Acculogic at www.acculogic.com, or call 1 (905) 475-5907.



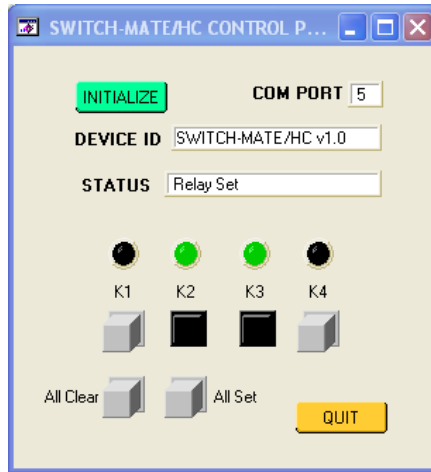
"The Future of Electronics Test"

EMBEDDED TEST SOLUTIONS

The diagram below highlights the extreme versatility, the SWITCH-MATE/HC^(vi) delivers to projects that require robust switching for a wide array of high-current applications.

Installation is painless, just mount the unit inside a test fixture, wire-up your load devices, connect the USB cable and **that's it** - you are off and running. Use the soft-panel (on the right), to test-drive the SWITCH-MATE/HC^(vi) and acquaint yourself with its simple controls.

Developing application code for the SWITCH-MATE/HC^(vi) is both simple and fast. Use whatever programming language you are accustomed (such as C/C++, LabView/LabWindows, VB, HPVee or a variety of scripting languages). Like all (Oi) test instruments, the SWITCH-MATE/HC^(vi) responds to a series of serial ASCII commands (via a Virtual Com Port).



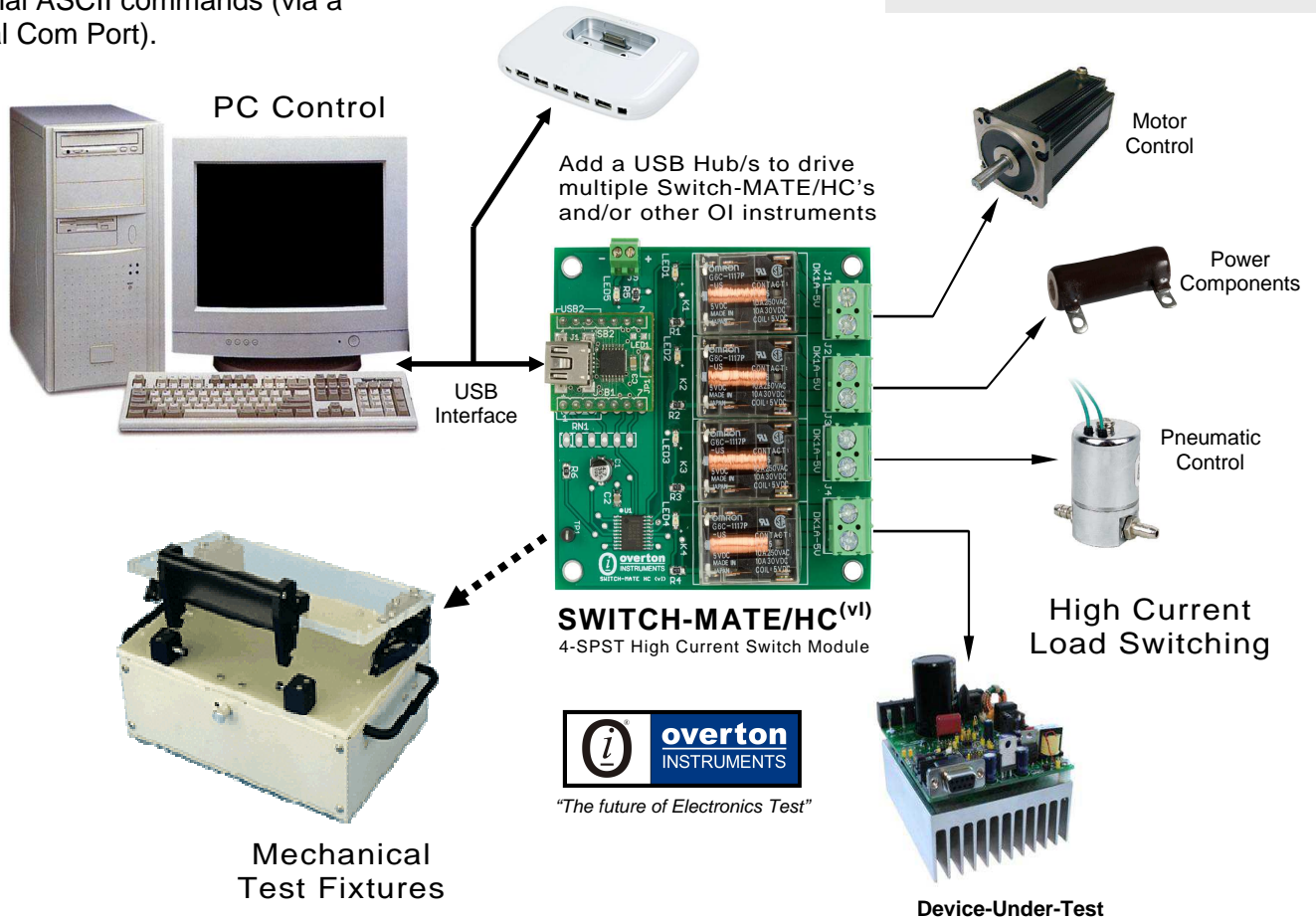
Need to measure a host of analog sensors, or control custom digital circuits, or add more relay configurations? Then just include a low-cost USB Hub in your project and take full advantage of all (Oi) test instruments.

Features

- 4-SPST, 1 FORM-A 10Amp Relays
- LED indicate each active relay
- Rapid switching, < 10msec actuation time
- Convenient screw terminal connections
- USB Interface or Embedded Control
- Compact size, 2.5" x 2.75"
- Low Cost (as much as 60% less then conventional PC-based equipment)

Applications

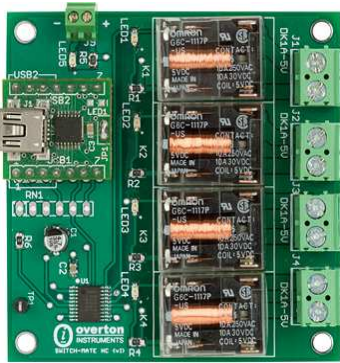
- Build Smart Test Fixtures
- Custom Desktop Test Equipment
- PCB Functional Test
- Pre-Production/NPI
- Burn-In & Stress Screening
- Engineering Design Verification
- Field Service/Depot Repair



(Oi) Relay Switching Solutions' Selection Chart

MARCOM20151108-OI

Subject to change without notice



The (Oi) family of **Relay Switching Solutions'** make it possible to develop custom test & measurement equipment with tremendous ease and flexibility, and for far less cost. In most cases, the cost per module can be as much as 60% less than a comparable PC-based instrument card.

Use (Oi) relay modules to enhance Mechanical Test Fixtures, build custom desktop test equipment or support larger ATE test systems. The modules are just 2.50" x 2.75" in size, and can be externally controlled by our embedded controllers (i.e., the Pico-MATE), or with a standard PC (with an optional USB interface). The on-board hardware resources can be easily accessed by simple screw terminal connections or through consolidated header connectors.

"The Future of Electronics Test"

MODEL	CONFIGURATION	SPECIFICATION	PART NUMBER	USB OPTION	APPLICATIONS
RELAY-MATE ^(vi)	8-DPDT Relays	30Vdc @ 1A ea	ETS-4010-00	ETS-4011-00	General Purpose, Small Signal
RELAY-MATE/HC ^(vi)	4-DPDT Relays, High Current	30Vdc @ 5A ea	ETS-4020-00	ETS-4021-00	G/P, Small Signal, High Current
RELAY-MATE/HP ^(vi)	8-DPST Reed Relays, High Performance	200Vdc @ 1A, Fast Switching	ETS-4030-00	ETS-4031-00	G/P, S/S, H/P & Fast Switching
SWITCH-MATE ^(vi)	8-SPST Relays	24Vdc @ 1A ea	ETS-4110-00	ETS-4111-00	General Purpose, Small Signal
SWITCH-MATE/HC ^(vi)	4-SPST, 10A High Current Relays	30Vdc @ 10A ea	ETS-4120-00	ETS-4121-00	G/P, Small Signal, High Current
SWITCH-MATE/HCII ^(vi)	4-SPST, 20A High Current Relay	250Vac @ 20A ea	ETS-4140-00	ETS-4141-00	G/P, High Power
SWITCH-MATE/HCIII ^(vi)	2-SPST, 30A High Current Relay	250Vac @ 30A ea	ETS-4150-00	ETS-4151-00	G/P, High Power
SWITCH-MATE/HCIV ^(vi)	8-SPST, 6A High Current Relay	250Vac @ 6A ea	ETS-4160-00	ETS-4161-00	G/P, Small Signal, High Power
SWITCH-MATE/HP ^(vi)	8-SPST Reed Relays, High Performance	200Vdc @ 1A, Fast Switching	ETS-4130-00	ETS-4131-00	H/P & Fast Switching
SWITCH-MATE/HV ^(vi)	8-SPST Reed Relays, High Voltage	1KVdc @ 1A, Fast Switching	ETS-4170-00	ETS-4171-00	High Voltage & Fast Switching
SWITCH-MATE/SSR ^(vi)	8-SPST Solid-State Relays	60Vdc @ 1A, Ultra-Fast Switching	ETS-4180-00	ETS-4181-00	G/P, H/P & Ultra-Fast Switching
MUX-MATE ^(vi)	16-Ch Signal Multiplexer	16 Relays, 30Vdc @ 1A ea	ETS-4210-00	ETS-4211-00	Small Signal Multiplexing
MUX-MATE/HP ^(vi)	16-Ch Signal Multiplexer High Performance	16 Relays, 200Vdc @ 1A, Fast Switching	ETS-4220-00	ETS-4221-00	H/P Signal Multiplexing & Fast Switching
MATRIX-MATE ^(vi)	4X4 DPDT Relay Matrix	16 Relays, 32Vdc @ 1A	ETS-4310-00	ETS-4311-00	Small Signal Multiplexing
4WIRE-MATE ^(vi)	4X8 DPDT Signal Multiplexer	16 Relays, 32Vdc @ 1A	ETS-4410-00	ETS-4411-00	Small Signal Multiplexing, "Gang" Panelized PCB Support