# 948i High Voltage Switching System

## The Solution for Multi-point Automated Dielectric Testing

### Unlimited Scanning Possibilities

When a single 948i High Voltage Switching System is combined with an automated hipot tester, up to 48 test points can be scanned for high voltage isolation. Multiple units make the scanning possibilities virtually unlimited.

The 948i is fast and easy to use so there is no excuse for using the hit-and-miss manual probing method of high voltage testing. The 948i reduces operator exposure to high test voltages while enhancing product quality and reliability. Consistent and repeatable test results are automatically documented making it simple to prove compliance with ISO9000 quality standards.

A simple two channel configuration of the 948i can handle the vast majority of high voltage scanning applications. The primary consideration is the number of switching points needed to automate the task at hand.

The 948i chassis is designed to hold six of the eight point high volt scanner cards. This allows up to 48 points (typically 24 on the HV bus and 24 on the return bus) to be loaded into a single unit.

### Set-Up is a Snap

Setting up the switching pattern for the 948i is a snap. The standard GPIB interface port allows the system controller to download, verify and activate any desired switching profile you can dream up. Or, if you prefer, an optional RS232 interface is also available. And if programming code is not your ideal way of spending the day, Vitrek Quick*Test* graphical software can get you up and running in no time at all.

For those who are are looking for a stand alone system, the 948i can be controlled directly by the Vitrek 944i in a PC free environment. So, no matter how you like it – Vitrek puts you in control of your automated high voltage test requirement.

- **Increases test throughput**
- **Reduces operator exposure to high voltage**
- **Improves test quality, consistency and repeatability**
- **Enhances end product quality and reliability**
- **Scan up to 48 points with a single compact unit**
- **Rated to 7KVDC or 5KVAC**
- **GPIB/RS232 standard**
- **May be controlled directly by Vitrek Hipot Tester**
- **Available Quick*Test* ™ Graphical programming software**
- **CE mark certified to EN 61010**
- **Made in the U.S.A.**

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## Switch Card Specifications

### HV-8 High Voltage Type

**Form A (SPST, normally open) 8 per card**

**Maximum Input Voltage:** 7 KVDC, 5KVAC RMS 50-60 Hz

**Maximum Current:** 3A DC or RMS AC

**Maximum Switching Power:** 50 Watts

**Maximum Switching Voltage:** 1 KV DC or RMS AC

### HC-4 High Current Type

**Form A (SPST, normally open) 4 per card**

**Maximum Input Voltage:** 1500 V RMS

**Maximum Switching Voltage:** 277 VAC, 30VDC

**Maximum Current**: 30A DC or RMS AC

**Maximum Switching Power:** 500 Watts

**Configuration:** 4 channels of high-current relays and 4 channels of sense relays

*Fully loaded 948i shown with six HV-8 switching cards installed - to form a 2x24 high voltage matrix.*

## General Specifications

**Remote Interface:** GPIB standard, RS232 optional

**Indicators:** L.E.D. status indicators for Test, Standby, Active, Talk, Listen, Address

**Diagnostics:** Built-in self diagnostics test ROM and RAM

**Operating Temperature:** 0°C to 50°C

**Humidity:** 80% RH 0°C to 40°C

**Power:** 115/230 VAC ± 10% 100 VA max

**Dimensions:** 89mmH x 432mmW x 485mmD (3.5"H x 17"W x 19"D)

**Weight:** 12 Kg (27 lb.) Net/16 Kg (36 lb.) shipping

**Standard Accessories:** Operators manual, hipot connection test leads and power cord

**Warranty:** 1 year parts and labor

**Capacity:** Holds up to 6 cards (HV-8 or HC-4) plus one MX-2 input mux card

**Safety:** CE mark certified to EN61010

## Ordering Information

**948i** High Voltage Scanning System . . .

**HV-8** Eight Channel HV Relay Card . . . . .

**HC-4** Four Channel High Current Card . .

**MX-2** Two Channel Input Mux Card . . . .

**MC-1L** Mating HV Test Lead 4ft. . . . . .

**GP-1** One Meter GPIB Cable . . . . . .

**GP-2** Two Meter GPIB Cable . . . . . .

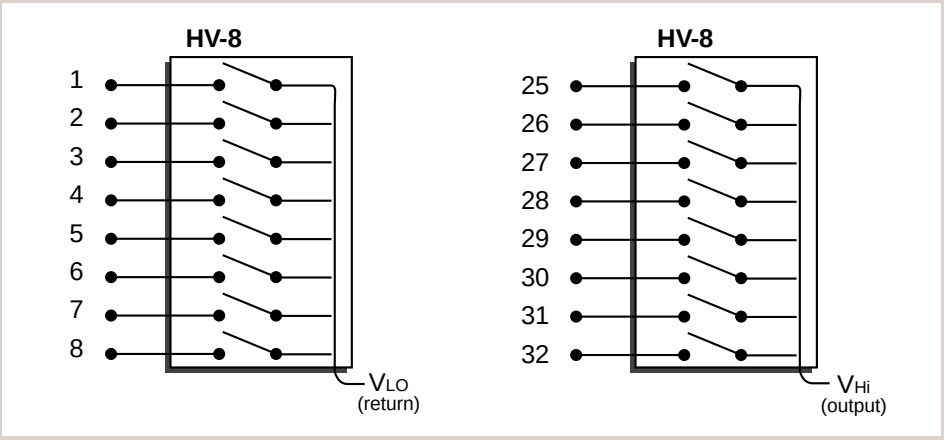
**QT-1** QuickTest Software . . . . . .

**RS232** Serial Port in lieu of GPIB . . . . . .

**RS-1** Serial Communication Cable 6 ft. . .

**RM-1** Rack Mount Adapter . . . . . .

**OM-948** Additional Operator's Manual . .




*Typical 948i configuration. Up to three "HV-8" switching cards connected to the hipot return and up to three HV-8 cards connected to the hipot output. Multiple 948i's can be combined to increase scanning capacity. Vitrek application engineers are always available to discuss your unique test requirement.*

**Represented by:**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