

TGA 10KV Scanner module

TGA 706-0028

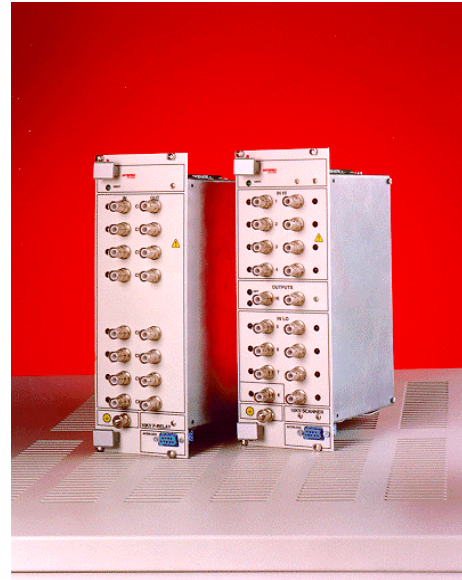
- **High Voltage scanning up to 10,000V DC**
- **Plug in module for TGA Architecture¹**
- **Available as TGA or VXI message based module²**
- **Ideal for high voltage EMC and Safety testing applications**
- **Hardware interlock facility for added user safety**
- **Optical indicator on every scanner channel**
- **Ideal for very high voltage scanning requirements**

The TGA 10KV scanner module is designed to protect electronic equipment in an automated system where high energy EMC surge pulses or very high voltages associated with safety testing may be present.

The 10KV scanner is a unique product to Intepro and its primary purpose is to provide a high voltage isolation barrier between the harsh environment associated with EMC test pulses and sensitive functional test instruments.

The Scanner module will stand off up to 10KV while the EMC test pulses are being injected into the Device Under Test (DUT). After the test pulses have been injected the scanner module can connect individual test points on the DUT through to functional measurement instruments. This allows the user to "close the loop" and implement a fully automatic test system that not only automates the EMC test pulse generation but also facilitates automatic verification of the DUT operating characteristics.

The module also has a common application in a system that combine high voltage safety testing and functional test. This is a common requirement in Power supply testing where this module can combine functional test and Hipot (safety testing) into one test process. Traditionally this required two test stages with a lot of wasted time and cost in fixture connection and disconnection at each stage. Throughput can be significantly increased by combining both processes into one test system using the 10KV scanner module.



Each channel on the 10KV scanner has an optical indicator to identify which channel is live (hot). As an additional safety feature the module has a separate hardware interlock circuit which can be wired in as part of an overall system interlock facility.

The module switching circuits are fully enclosed in and EMI screened case to minimize interference, associated with high voltage switching, with any adjacent modules in a TGA or VXI rack.

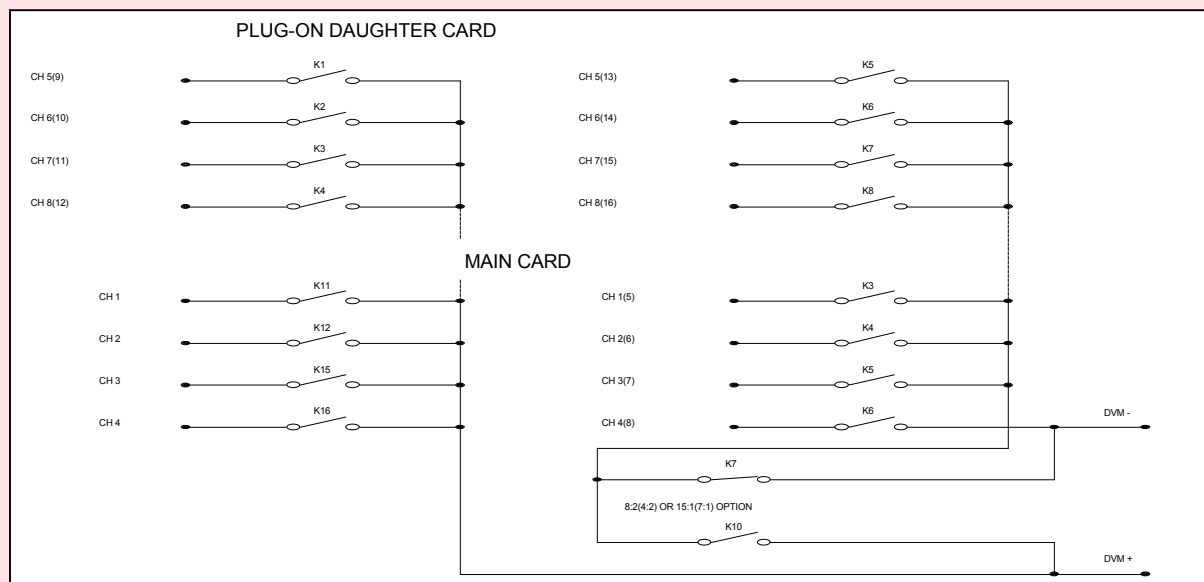
The module can be configured as a single ended or differential scanner. In single ended mode it is configured as a 15:1 (fifteen to one) scanner. In differential mode it is configured as an 8:2 (eight to two) scanner.

The module is fully supported by the POWERSUITE and POWERSTAR software platforms supplied by Intepro. The module is designed for simple plug in insertion into a TGA backplane system (low cost) or into any standard VXI backplane.

The 10KV scanning module is the most economical and practical method of switching high voltage test point signals in a Intepro test system.

Technical Specifications

Relay Form : OR	8:2 Differential Channels 15:1 Single ended Channels	Size :	233mm x 220mm x 90mm TGA module (H x D x W) C Size, Double Slot VXI module
Maximum Voltage :	10,000V DC	User connections :	18 SHV Female connector For high voltage signals. One 9-way D type for interlock
Maximum current :	5 A (closed) 5mA @ 10KV	Operating Temp :	0°C to 55°C
Contact resistance :	50m Ω Max	Storage Temp :	0°C to 70°C
Operate time :	3mS Max	Humidity :	10% to 85% Relative
Release time :	1.5mS Max		



Ordering information

706-0028 TGA 10KV Scanner Module

Options

¹ see separate data sheet on TGA backplane

² Requires TGA/VXI adapter module



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