

TGA Low Voltage Scanner

TGA 706-0003

- **High speed, reliable, signal switching**
- **Plug in module for TGA Architecture¹**
- **Available as TGA or VXI message based module²**
- **Selectable single ended, differential, and four wire mode**
- **On board selftest circuitry³**
- **Ideal for dense test point scanning, or matrix, requirements**
- **Fuse protection on relay scanner blocks**

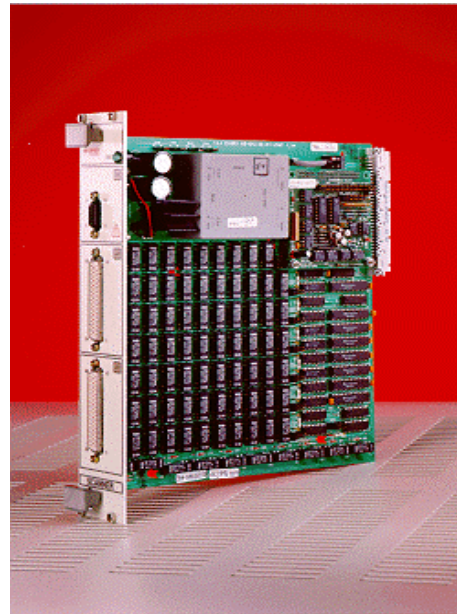
The TGA Low Voltage scanner module is designed for reliable, high speed switching of test measurement signals.

It can be configured easily (via on-board headers) for switching single ended (80 channels per module), differential (40 channels per module), or 4 wire (20 channels per module), signal measurements.

The most common application of this module is for scanning differential test signals from multiple points within a Device Under Test (DUT) through to a system measurement instrument such as a DVM or LCR meter. The 4 wire scanning mode can be used in situations where high accuracy measurements of low value resistors or inductors is required.

The module can also be used in a *back end* mode as a signal multiplexer. This covers situations where there is a requirement to switch a low frequency signal (less than 150KHz) through to a variety of points on a DUT under program control.

The high quality test point scanning relays that are used ensure accurate and repeatable measurements with the voltage range specified. The relays are protected by means of decoder logic and on-board fuses. The relays are arranged on the board in block of 10 relays. Logic decoders ensure that only one relay on any block can be closed at any time. The outputs of each block are independently fused to ensure that if a short circuit path is created in any measurement loop the relays and board tracks will not be destroyed. This can be critical in high power, high voltage test situations such as Power Supply testing or EMC testing.



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.

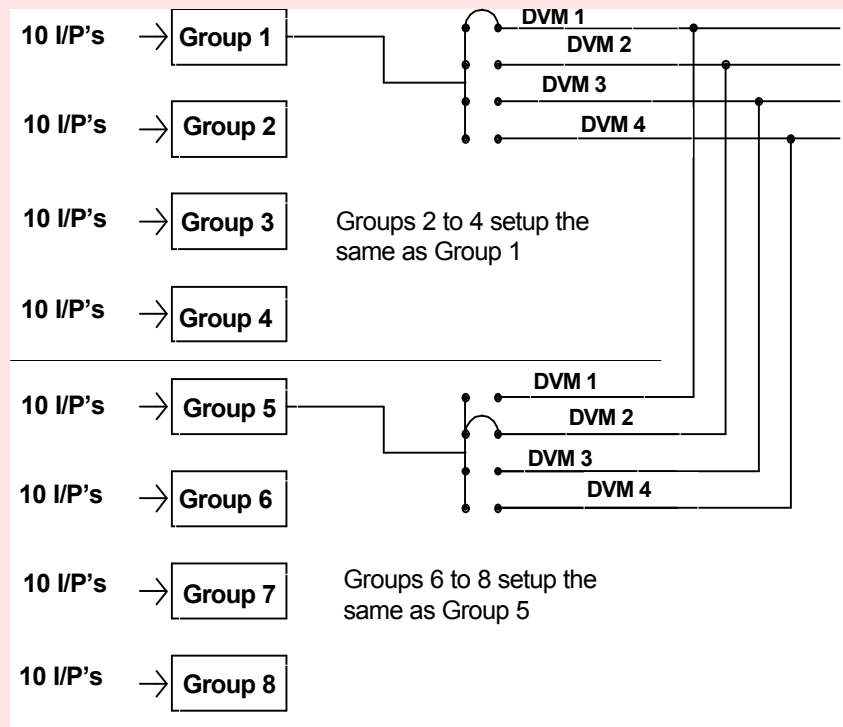
The signal input interface to the DUT or to other modules, in a system environment, is via two 50 way D type connectors.

The signal paths through these connectors are laid out in a way to facilitate the use of 50 way ribbon cable. This can drastically reduce the time involved in wiring up to the module in any given application.

The low voltage scanning module is the most economical method of switching low frequency test point signals in a Intepro test system.

Technical Specifications

Relay Form : Single Pole Single Throw (SPST)	Release Time : 1mS Max
Maximum Voltage : 150V D.C	Storage Temp : 0°C to 70°C
Maximum current : 100mA at Max Voltage	Operating Temp : 0°C to 55°C
Contact Resistance : 100m Ω Max	Humidity : 10% to 85% Relative
Size : 233mm x 220mm x 45mm TGA module (H x D x W) C Size, Single Slot VXI module	User Connections : Two male 50-Way D type connector for user scanner input. One 9-way D type for output connection to DVM. Note: The output is also present on the backplane connectors and may be routed this way if preferred
Operate Time : 1.2 mS Max	



Shows Module configured in forty channel differential mode

Ordering information

706-0003 TGA Low Voltage Scanner module

Options

¹ See separate data sheet on TGA backplane ² Requires TGA/VXI adapter module ³ Selftest software available as a separate option



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