

## TGA RTM Module

- **Ideal for Real Time Monitoring of DUT test points**
- **Plug in module for TGA Architecture<sup>1</sup>**
- **16 Level (or 8 Window) comparators per module**
- **Hardware link to AC/DC switch for automatic DUT shutdown**
- **Multiple modules can be configured to expand number of monitoring channels required in a system**
- **Excellent for burn-in applications**

The TGA RTM (Real Time Monitor) modules is specifically designed for burnin and other test point monitoring applications. There are sixteen (16) monitor circuits per module. The circuit trip level is fully programmable to allow the user to set the trip level specific to the test point being monitored.

The RTM module is particularly useful in Burnin monitoring applications where a large number of units are in burnin at the same time. In this type of application there may be more than a few hundred units in burn in at any one time. The time it would take to scan each output and make a decision on whether it was within acceptable limits could take a half an hour or more to cycle through the whole system. During that time a unit may have shut down and recovered (i.e. intermittent fault) and the failure would not be recorded by the monitoring system.

Intelligent use of RTM modules can avoid this problem because once setup the RTM modules will register a failure (test point outside limits) in hardware without the need for software or PC controller intervention. If a trip occurs the failure is latched on the Module along with the time of failure (if used in conjunction with a controller module) and this information can be retrieved by the controlling PC later, when time allows.

In this way large, complicated burnin monitoring facilities can be configured in the knowledge that no critical failures will be lost if the controlling PC is tied up on important management activities elsewhere in the system.



Used in conjunction with appropriate TGA scanning modules it is possible to configure cost effective monitoring systems for burnin and other applications.

Use of these monitoring facilities will not only ensure that faulty products, or intermittent failures in products do not get shipped into the field to end user customers, but it can also provide a means of reducing burnin times based on actual data collected during the monitoring process. The data collected can form a basis for calculating *actual* MTBF figures rather than theoretical figures based on MIL STANDARD tables.

Two or more comparator circuits can be cascaded together to provide window comparator facilities. In addition trip points can be set on current levels (voltages across shunts), digital outputs and other types of analog outputs.

The TGA RTM module is designed for simple plug in insertion into a TGA backplane system ( low cost ) or into any standard VXI backplane.

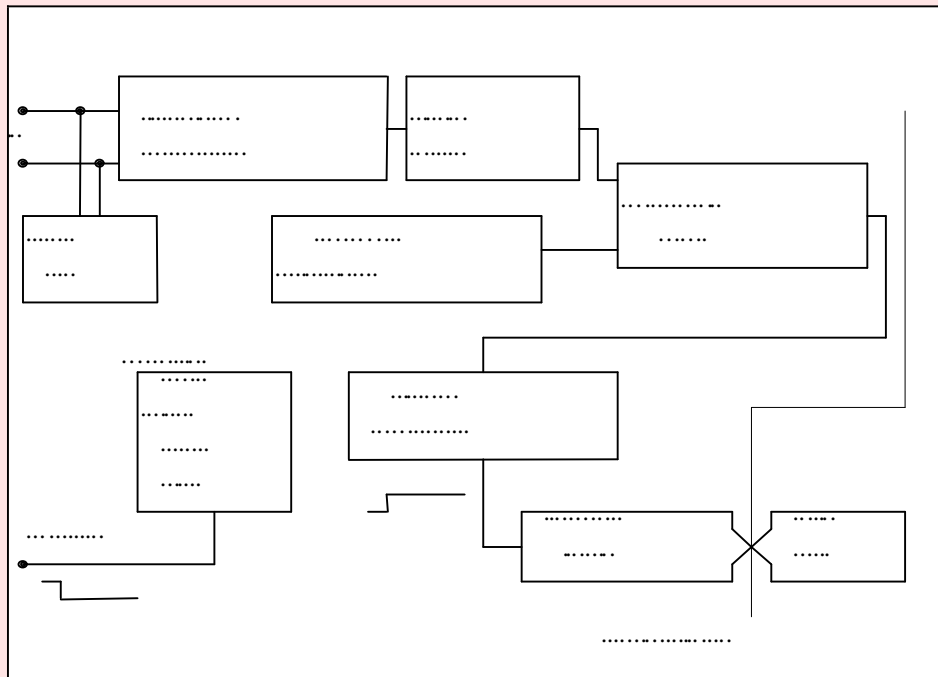
Connection to the module is via one 50 Way D Type connectors. This facilitates easy insertion and removal from the ATE system.

The module is fully supported by POWERSCREEN and the POWERSUITE software platform.

## Technical Specifications

	Range 1	Range 2
<b>Input range</b>	0 – 10 V DC	0 – 100 V DC
<b>Trip resolution</b>	+/- 5 mV	+/- 50 mV
<b>Accuracy</b>	+/- (0.25% Setting + 5mV)	+/- (0.25% Setting + 50mV)

<b>Trip Holdoff Time :</b>	2mS typically	<b>Storage Temp :</b>	0°C to 70°C
<b>Operating Temp :</b>	0°C to 55°C	<b>Humidity :</b>	10% to 85% Relative
<b>Size :</b>	233mm x 220mm x 45mm TGA module (H x D x W) C Size, Single Slot VXI module		



**Block diagram of RTM circuit (16 per module)**

### Ordering information

706-0001 TGA RTM Module

### Options

<sup>1</sup> see separate data sheet on TGA backplane



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