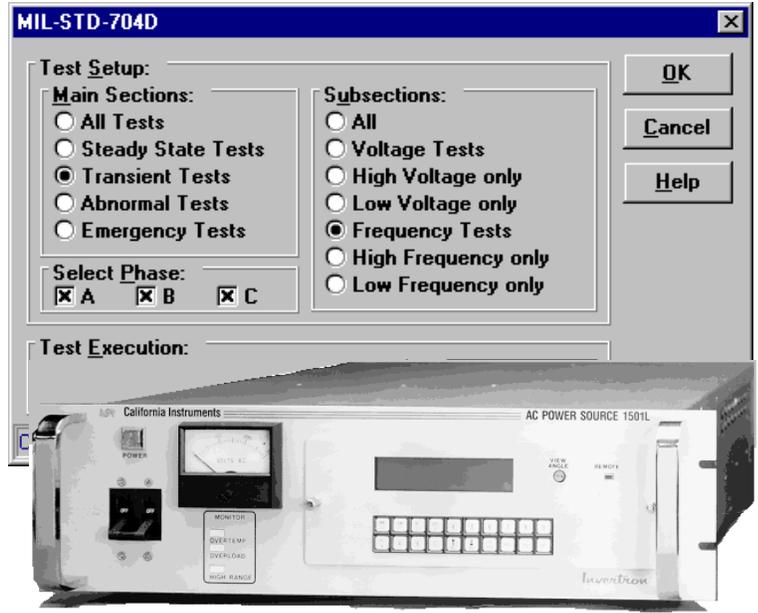


AC Power Test Systems MIL-STD-704D

- **Built in Test**
Performs all MIL-STD-704D tests with a single command
- **Range of Power Levels**
Available for most California Instruments AC Power sources from 750 VA to 54 KVA
- **Single Test Step Mode**
Select any individual 704D test as required
- **Transient Programming**
All -P and -PT controller functions remain available, including transients
- **Available for Single and Three Phase Systems**
Phase selection on three phase units allows testing of single phase UUT's
- **Full Remote Control**
All tests can be run from front-panel or IEEE-488 bus



Mil Testing Made Easy

Now, a MIL-STD-704D test system that runs all 15 AC power tests at the push of a button is within your reach. The -704 option provides any California Instruments AC power source that has a programmable controller with easy access to any of the 15 704D tests. Tests can be run individually or sequentially from

both the keyboard and the IEEE-488 interface. Convenient switching between 704D tests and standard AC program mode allows complex tests like ramps, spikes, sags, surges and drop-outs to be executed as well.

Implementation

The MIL-STD-704D test sequences are implemented in

special firmware that can be installed as an option in most of California Instruments' programmable AC power sources. The firmware ensures that tests are always available and no download or user programming is required. All test sequences can be accessed from the front panel keyboard using on screen menu prompts. For ATE applications, full access to the 704D tests is provided through bus commands.

Test Steps

The -704 option covers all test sequences called out in the MIL-STD-704D standard. Specifically, the following tests are supported:

Steady State

Table 1, 5 tests

Transients

Figure 5&6, 4 tests

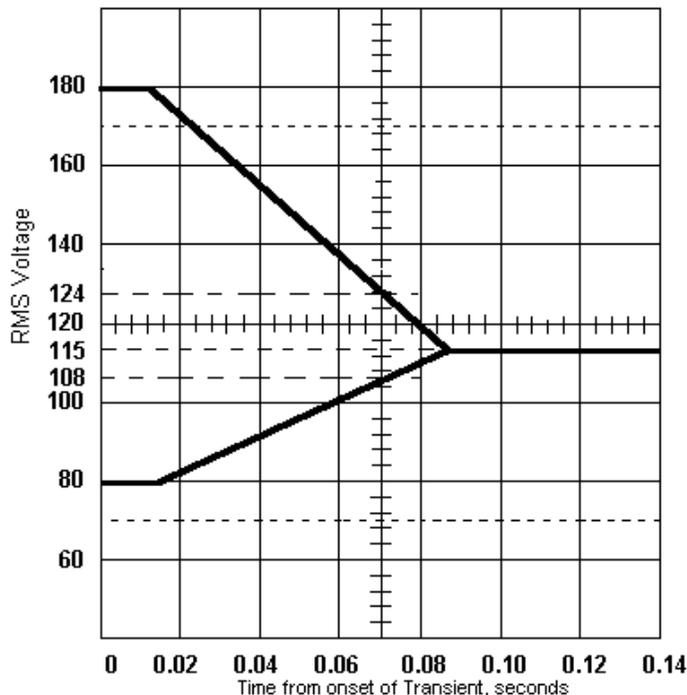
Abnormal Operation

Figure 7&8, 4 tests

Emergency Operation

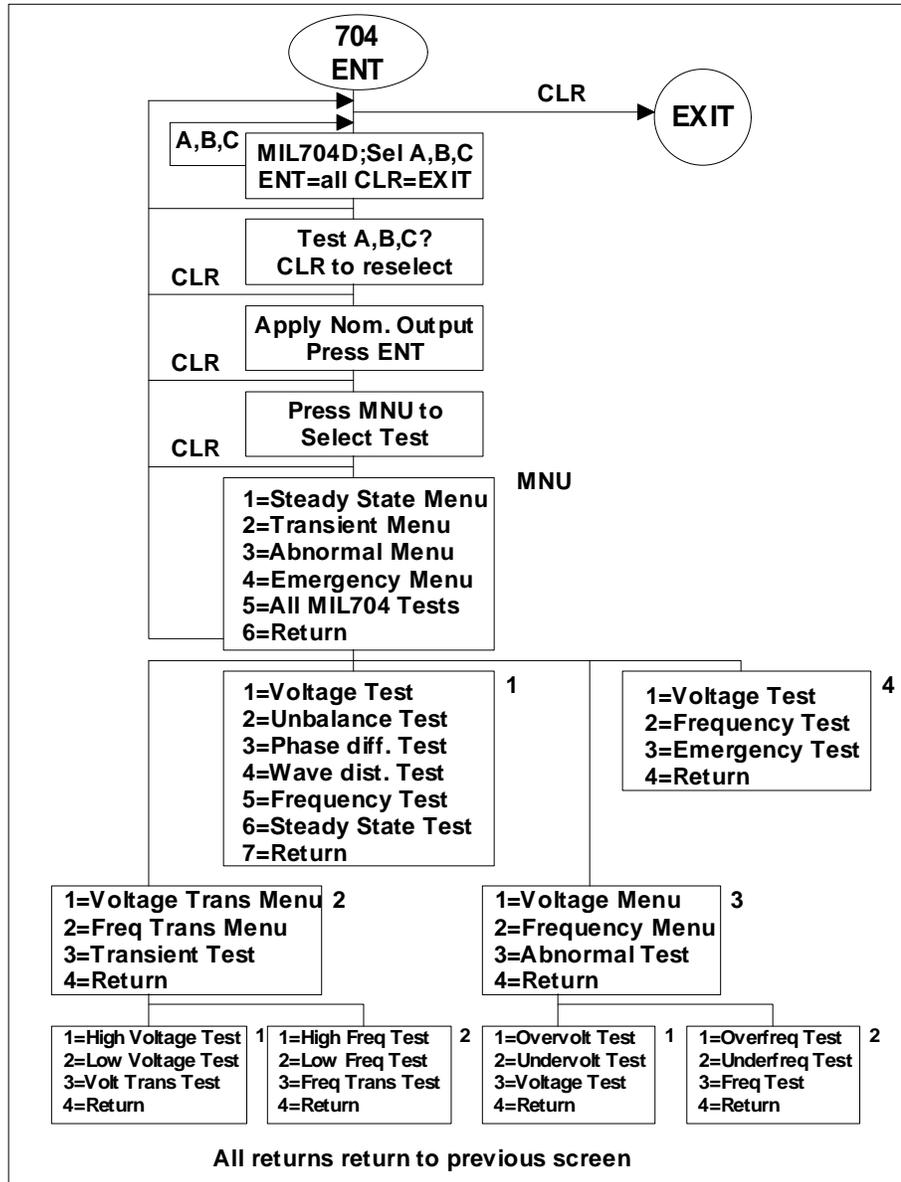
Paragraph 5.2.5, 2 tests

In addition to these firmware based MIL-STD-704D test sequences, the programmable controller offers extensive transient programming capabilities.



Voltage Transient, MIL-STD-704D, Figure 5

MIL-STD-704D TEST DECISION TREE



Front panel operation menu structure for MIL-STD-704D Test option

Ordering Information

The -704 option is available for the following California Instruments AC power source series.

- L Series and FCS Series with -P or -PT programmable controller.
- i-Series.

The MIL-STD-704D test option can be ordered by specifying the -704 suffix on any AC power source configuration that is supported. For example, a three phase, 5 KVA L Series system with MIL-STD-704D test option would be ordered as follows:

4500L-3P-704

Note: This option is not available for -HGA controlled AC power systems

Terms

Net 30 days on approved credit

Delivery

30 days ARO - subject to orders on hand.

Shipment

F.O.B. San Diego, CA. Freight collect.

Customer Support

For technical support and service, or to discuss your AC power application needs, contact California Instruments Corp. or your local representative.

Software Support

The MIL-STD-704D option is automatically recognized by the Windows Graphical User Interface software supplied with all California Instruments programmable controllers. Easy to follow user dialogs are provided to select and run any of the available tests.

A sample dialog box from the L Series GUI is shown on the front page of this data sheet.

Contact California Instruments:

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FAX: 858-677-0940

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