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ESS / Burn-In / Vibration Monitoring Systems













Functional ATE & Power Supply Testers

Military and Aerospace Test Systems
Functional ATE Systems
Power Supply Test Systems
Hi-Pot Test Systems
ESS / Burn-In / Vibration Monitoring Systems
Manual Test Systems
Test Fixtures and ITAs
Box Builds and Sub-Assemblies
Switching and I/O Cards
Custom Cabinets and Accessories

KEYSIGHT TECHNOLOGIES
Solutions Partner

FineTest 1 Industry Drive, Palm Coast, FL 32137 Tel: (386) 569-6189 Fax: (386) 446-0463 email: sales@finetest.com

Functional ATE & Power Supply Test Systems

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Solutions Partner

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Section 4

ESS/Vibe/Burn-In Systems

FineTest provides Test Systems for Environmental Stress Screening (ESS) Vibration Monitoring and Burn-In.

These systems are used in support of projects for Military/Aerospace and Telecom Applications.

FineTest ESS/Vibe/Burn-In Systems include:

Test Stations (Loads, Power Cycling, Cabling etc.)
Monitoring Software
Burn-In Carts
Life Test Carts
Regenerative Loading

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ESS, Burn-In and Vibration 12 Unit Monitoring System

ESS / VIBE / BURN-IN SYSTEMS

Front view of ESS, Burn-In and Vibration Monitoring System

Application: ESS, Burn-In, and Vibration Monitoring System

Features:

- 12 Units at a time
- FineTest Monitoring Software

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FineTest Monitoring Software for 12 Units

ESS / VIBE / BURN-IN SYSTEMS

Close-Up Opening Slide Out Unit

Slide Out Shelves for Easy Service

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ESS, Burn-In and Vibration 12 Unit Monitoring System

continued...

ESS / VIBE / BURN-IN SYSTEMS

Hinged ESS System Control Panel with Dual DC Input Voltage Monitors and Two Chamber Temperature Alarm Circuits

ESS UUT Interface for 2 Units with Dual Voltage and Current Monitors, individually controlled DC Input On/Off, Lighted Circuit Breaker and Output Load Pop-Out Fuse

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Rear System Interface Panel Close-Up showing
12 Unit Connections for Test Cables
from Chamber to System

Rear View showing
12 Thermally Rated and Color Coded
UUT Test Cables from Chamber to System

ESS / VIBE / BURN-IN SYSTEMS

Acceptance Test and Training

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DC Monitoring Systems

ESS / VIBE / BURN-IN SYSTEMS

Front view of two DC Monitoring Systems

Application: Military Design Verification Test

Features: Virginia Panel front panel interface

FineTest Monitoring Software

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FineTest Software monitors all DC Inputs to UUTs with Data-Logging

ESS / VIBE / BURN-IN SYSTEMS

Accessory Storage Drawer

Cable Acces in Front for Clip-On Meter

Pull-out Keyboard Shelf for Data Entry

Side Doors for Easy Access

All Cabling through Ferrite Cores to minimize noise

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ESS and Burn-In
6 Unit Monitoring System

ESS / VIBE / BURN-IN SYSTEMS

Application: Military Power Supplies

Environmental Stress Screening with Monitoring

Features: FineTest Monitoring Software

Thermal Chamber integration

FineSoft on LabWindows CVI platform

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Rear view of System showing
Color-Coded Temperautre Rated Cables
that connect the System to the
UUTs inside the Thermal Chamber

Close-Up of Cable Connections
on Rear Panel of System

ESS / VIBE / BURN-IN SYSTEMS

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ESS and Burn-In
6 Unit Monitoring System
continued...

ESS / VIBE / BURN-IN SYSTEMS

Side view with Cabinet Side Door Open showing easy access to Communication Boards, Thermocouple/Temperature Monitor, 400Hz Input AC Voltage Monitors, AC Cycling Relays

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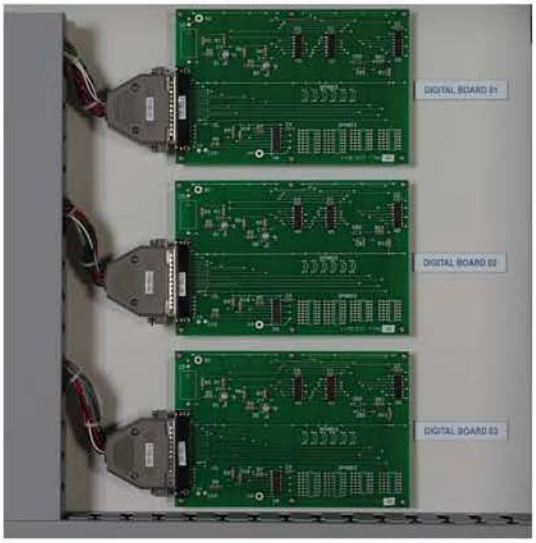
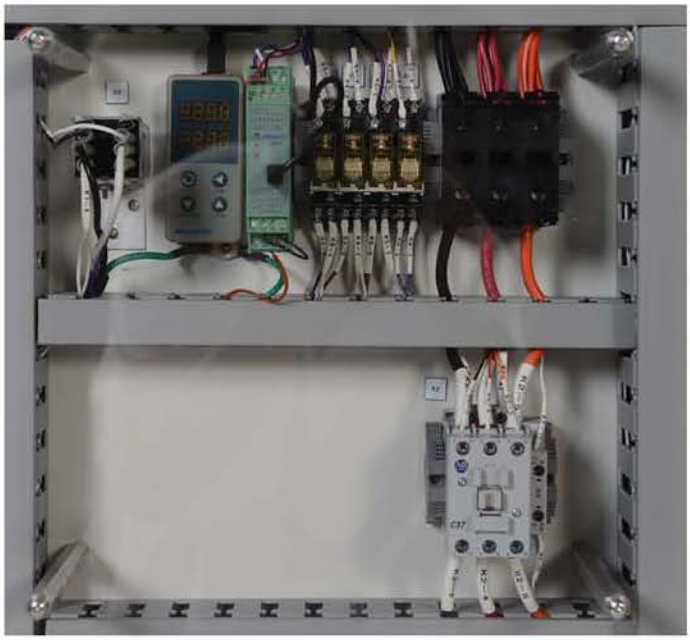


Close-Up of 3 Dual Port
Digital Communication Boards

Close-Up of 6 Relays to switch
AC Input Voltage On/Off
to the UUTs for AC Cycling Tests

Close-Up of 3 Phase 400Hz
AC Input Voltage Monitor
to immediately disconnect
Input Power to the UUTs
if the Input Voltage is out of limits



Close-Up of Thermocouple/Temperature Monitor
to record temperature inside thermal chamber
and disconnect Input Power to the UUTs if out of limits

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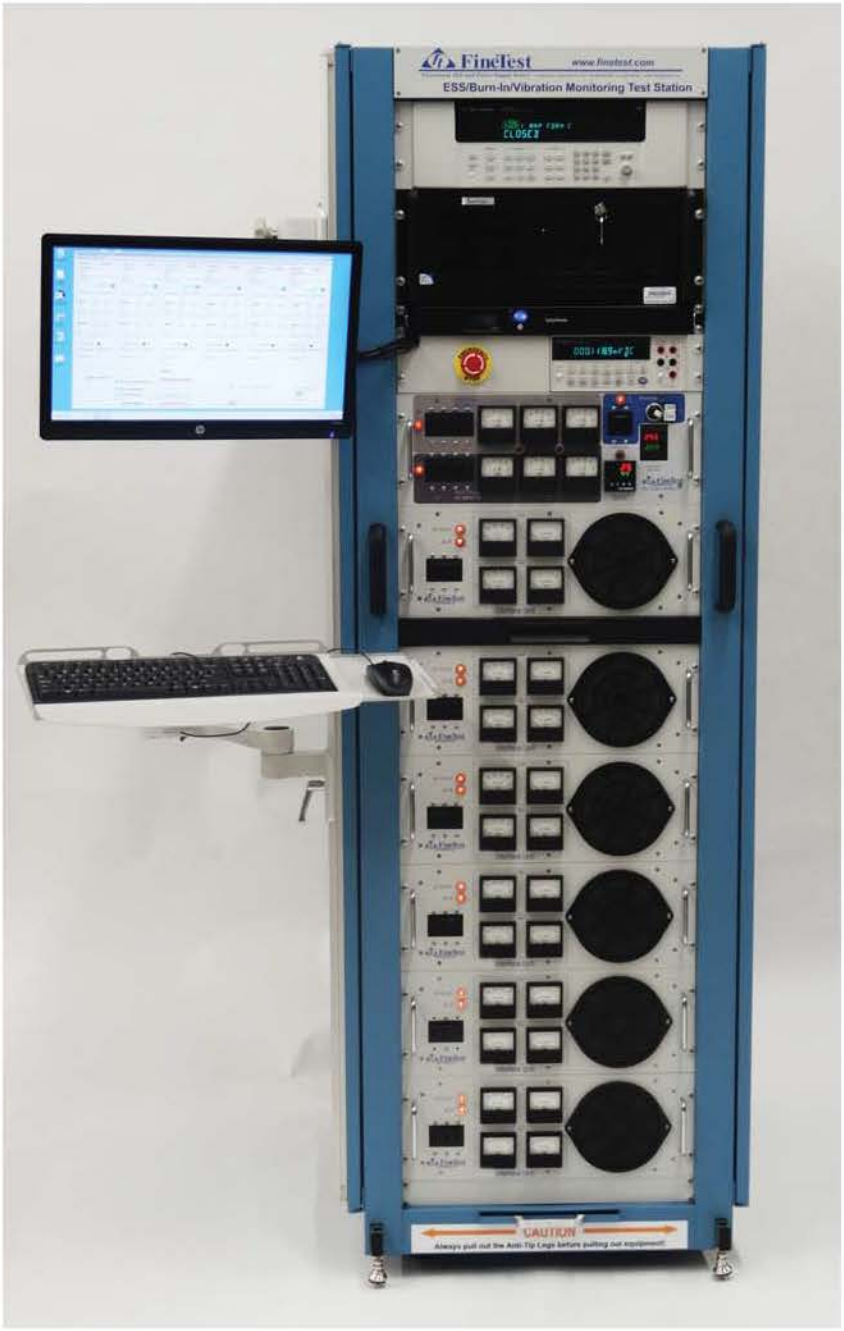
ESS, Burn-In and Vibration 6 Unit Monitoring System

ESS / VIBE / BURN-IN SYSTEMS



Front view of ESS, Burn-In and Vibration Monitoring System

Application: ESS, Burn-In, and Vibration Monitoring System

Features: 6 Units at a time

FineTest Monitoring Software

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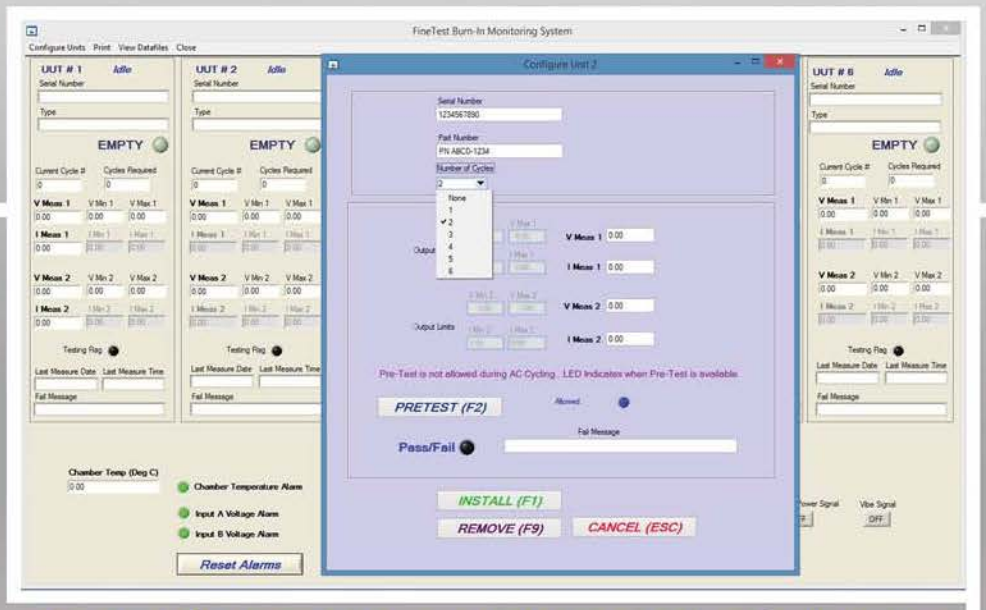

FineTest Monitoring Software with Unit Installation/Configuration

Close-Up Opening Slide Out Unit

Slide Out Shelves for Easy Service

ESS / VIBE / BURN-IN SYSTEMS

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ESS, Burn-In and Vibration
6 Unit Monitoring System
continued...

ESS / VIBE / BURN-IN SYSTEMS

ESS System Interface Unit with Dual 3Phase 400Hz AC Input Monitors
and Two Chamber Temperature Alarm Circuits

ESS UUT Interface Unit with Dual Voltage and Current Monitors
and individually controlled AC Input On/Off
with Circuit Breaker and Indicators

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Rear System Interface Panel Close-Up showing
Thermocouple Connections, AC Input Power Connections,
6 Unit Connections for Test Cables from Chamber to System,
Cable Hooks for Test Cables

Rear View with Door Open showing
Cable Arms for Each Pull-Out Box
6 Unit Test Cables from Chamber to System

Rear View of System

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Environmental Stress Screening Tester and Burn-In for Telecom Power

ESS / VIBE / BURN-IN SYSTEMS

Front view of Tester showing 20 Burn-In Loads, Power Switching Units, VXI Switching

Application:

Telecom AC/DC and DC/DC Power Supplies

Functional Test and Burn-In of 20 Power Supplies

Thermal chamber for accelerated temperature stress screening

Instrumental in customer winning Deming Award 1994

Features:

Dual 25 Module VP front panel interface inside thermal chamber

C size VXI mainframe for switching

20 plug in resistor load slots can accept different burn-in loads

Switches AC or DC Power to the 20 UUTs

Facility supplied AC, DC supplied by 20 DC Power Supplies

FineSoft on LabWindows CVI platform

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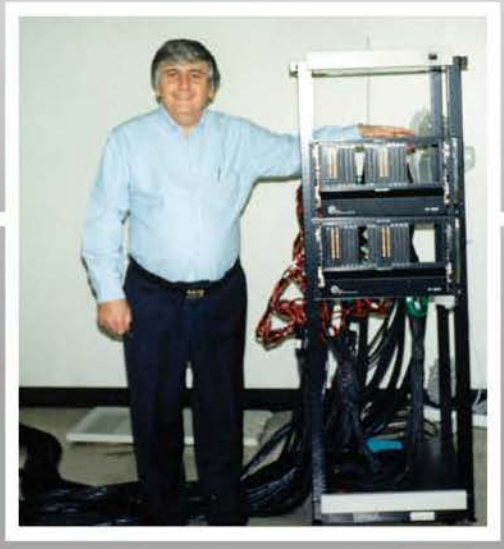
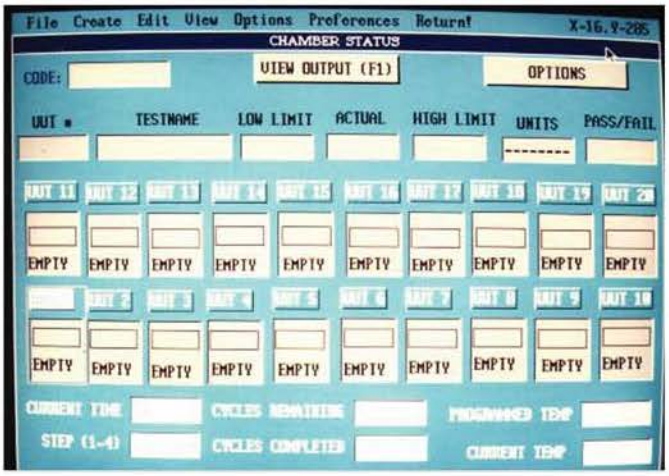
20 DC Power Supplies and fused AC Power Switching Units



Close-Up of dual 25 Module interface located inside the thermal chamber



FineTest Software to both functionally test and monitor burn-in of the 20 UUTs

ESS / VIBE / BURN-IN SYSTEMS

How it works:

The system functionally tests one supply, while the other 19 supplies burn-in at full load.

After the first supply has finished its functional test, it is connected to its burn-in load.
The tester then switches to the next supply for functional testing.

The functional test cycles through all of the 20 supplies.

The Thermal Chamber moves the temperature and the test/burn-in cycle begins again.

The entire test time is 48 hours.

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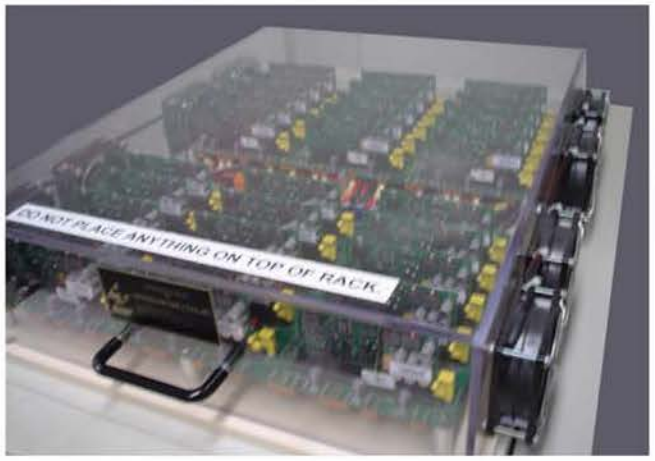
Burn-In and Monitoring System
36 Voltage Regulator Modules

ESS / VIBE / BURN-IN SYSTEMS

Front view of VRM Burn-In System



Close-Up of Slots on Top of System with 36 Slots loaded with UUTs

Application: Voltage Regulator Modules

Features:
- 36 Slots for UUTs
- Cinch connectors to hold UUTs
- FineTest Burn-In Monitoring Software

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Functional ATE/Monitoring for Power Module Vibration Test

ESS / VIBE / BURN-IN SYSTEMS

Front view of Vibration Monitoring System

Application: Power Monitor Modules
High Volume Production

Features: Monitors UUTs during Vibration for Power Glitches
RS485 Communication to UUTs during Vibration
to monitor UUT Status Registers
FineSoft on LabWindows CVI

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Eight 48 Unit Burn-In Systems (384 Units Total)

ESS / VIBE / BURN-IN SYSTEMS

Side view of Burn-In System #3 and Burn-In Monitoring Software

Multiple Burn-In Systems

Application: AC/DC and DC/DC Power Supplies

High Volume Production

Features:

- 8 Burn-In Systems capable of 48 UUTs per System
- Temperature Controlled Chamber for each UUT
- Electronic Loads for each UUT
- FineTest Burn-In Monitoring Software
- Monitors Power-Good/Fail Lines from the UUTs

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Close-Up of Multiple Burn-In Systems

Side view of one Burn-In System

Close-Up of Electronic Loads and Temperature Controlled Chamber with 2 UUTs loaded

IOTech 64 Point Muxes for Monitoring

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128 Unit Monitoring Systems and 8 Unit Burn-In Carts

ESS / VIBE / BURN-IN SYSTEMS

Front view of Multiple Burn-In Carts

Application: AC/DC and DC/DC Power Supplies Burn-In
High volume production

Features: FineTest Burn-In Monitoring System integrated with Thermal Chamber
FineTest Burn-In Monitoring Software
Measures AC or DC Input Voltage
Measures DC Output Voltage or Power Fail Line
256 Point Matrix in C Size VXI Mainframe

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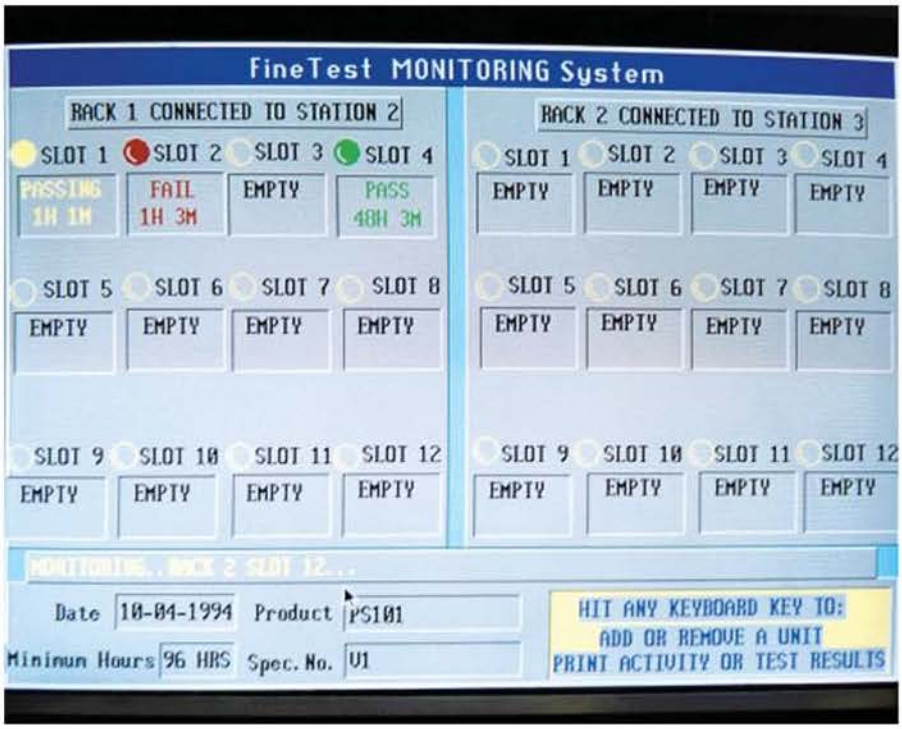
Front view of a Burn-In Cart

Front view of Burn-In Monitoring System Integrated with Thermal Chamber

ESS / VIBE / BURN-IN SYSTEMS



FineTest Burn-In Monitoring Software

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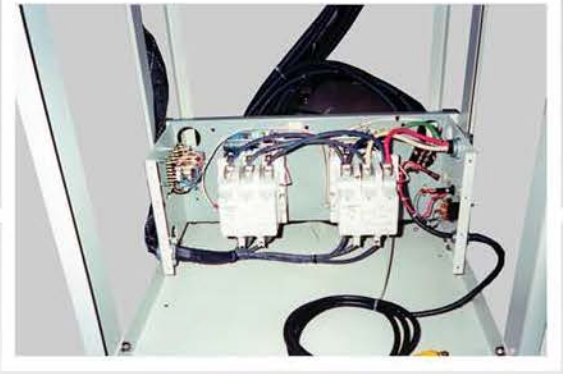
Ten 2 Unit Burn-In Carts and 20 Unit Monitoring System

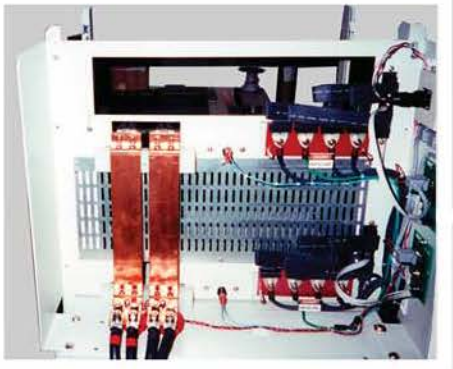
ESS / VIBE / BURN-IN SYSTEMS

Front view of 2 Vortex Burn-In Carts

Rear view of 2 Vortex Burn-In Carts



Power Cycling Contactors in Cart



Wiring inside Cart

Application: 48V, 200A 10kW AC/DC Power Supplies Burn-In

Features:

- FineTest Burn-In Monitoring System integrated with Thermal Chamber
- FineTest Burn-In Monitoring Software
- RS485 Communication to UUTs to monitor Status Bits
- Power Cycling Contactors Controlled by Monitoring Software

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ESS / VIBE / BURN-IN SYSTEMS

Burn-In Cart with lower cover removed showing contactors

Burn-In Monitoring System and Cart with 2 UUTs

Burn-In Monitoring System in production

FineTest Burn-In Monitoring Software

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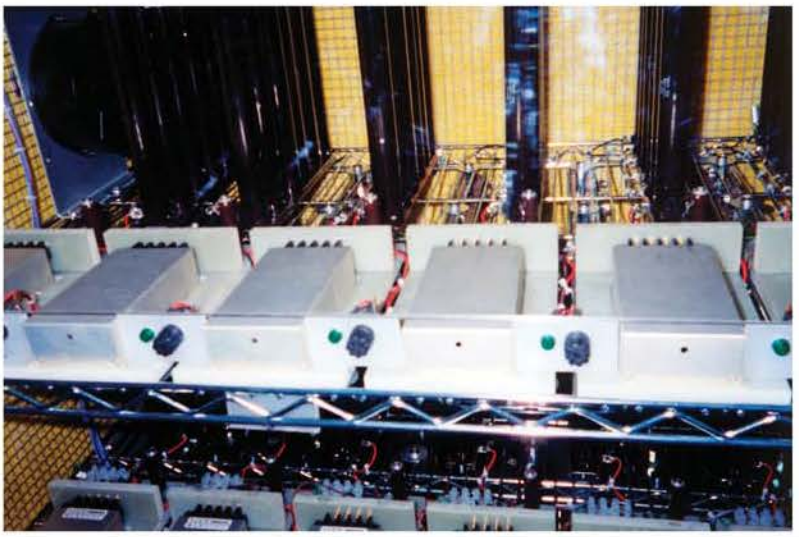
24 Unit Burn-In Carts for Telecom Power *Mexico*

ESS / VIBE / BURN-IN SYSTEMS

Front view of Fully Loaded Burn-In Cart



Close-Up of UUTs installed in a shelf

Close-Up of Temperature Controller and Power Control Box

Application: AC/DC Power Supplies

Features:

- 24 Slots per Cart
- LED and Fuse for each slot
- Temperature Controlled Cart
- Resistive loads inside Cart to heat UUTs
- Pogo-Pin connection to UUT for easy installation

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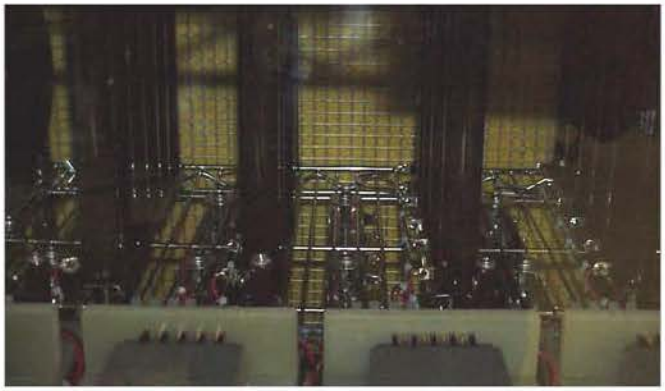
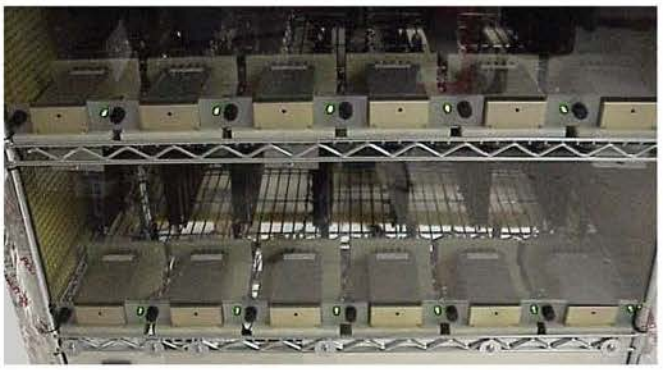
Heat Exhaust Fans on Top of Cart

Heat Exhaust Fans on Side of Cart

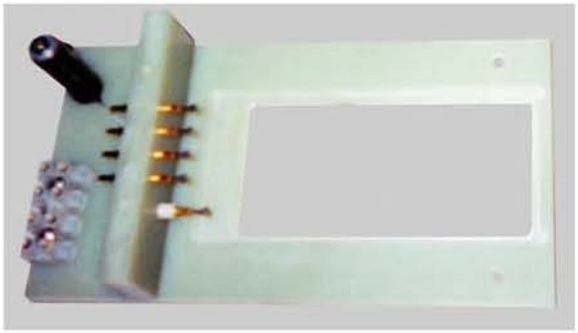


Resistor Loads inside Cart to heat UUTs



Green LEDs ON when UUTs Passing

LED and Fuse for each Slot



Pogo-Pin Connection to UUT

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16 Unit Life Test Burn-In Cart for Telecom Power Supplies

ESS / VIBE / BURN-IN SYSTEMS

Front view of Life Test Burn-In Cart

Application: AC/DC Power Supplies Life Test Burn-In

Features:

- 16 Slots for UUTs
- Resistive Loads on bottom of Cart to heat UUTs
- AC Input Power Control Box with Power Cycling Timer
- Large Casters for easy mobility
- One piece frame for Heavy Power Supplies

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Close-Up of Resistive Loads on bottom of Cart

Side view of Life Test Burn-In Cart
showing AC Input Power Control Box
with Power Cycling Timer

Side view of duplicate Cart
with resistive loads on top

Rear view of duplicate Cart
with resistive loads on top

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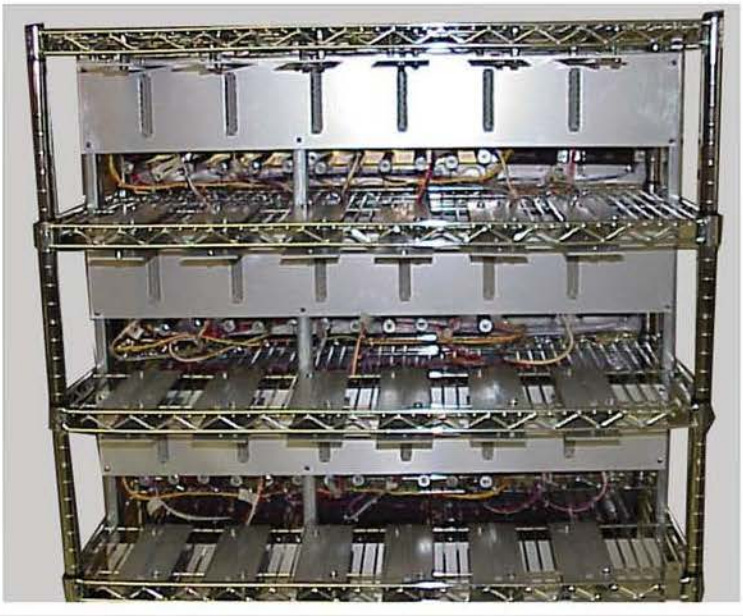
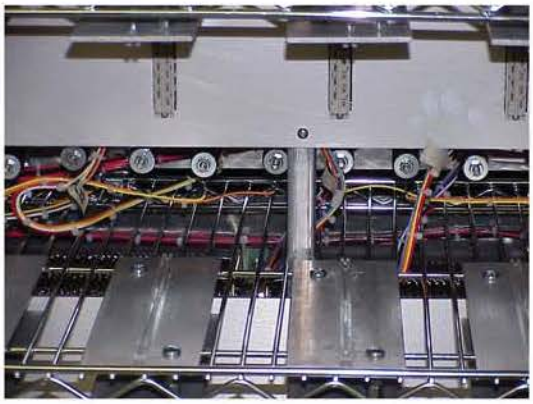
24 Unit Burn-In Cart for DC-DC Converters

ESS / VIBE / BURN-IN SYSTEMS

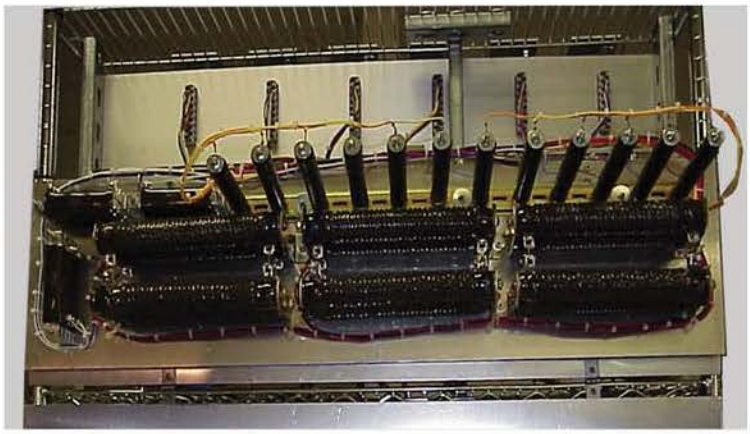
Front view of Burn-In Cart



Close-Up front view of Burn-In Cart



Close-Up of Slots



Drop-Down Back Panel Resistor Loads

Application: DC/DC Power Supplies

Features: 24 Slots for UUTs

Drop-Down Back Panel Mounted Resistor Loads

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15 Unit Burn-In Cart for Telecom Power Supplies

ESS / VIBE / BURN-IN SYSTEMS

Front view of Burn-In Cart with 15 UUTs loaded and connected to the DC Input Power Cabinet

Close-Up of Burn-In Cart with AC Input Power Control Box on the side of the Cart

Application: Power Supply Burn-In

Features:

- AC/DC or DC/DC Power Supplies
- Resistive loads on top of Cart
- Large casters for greater mobility

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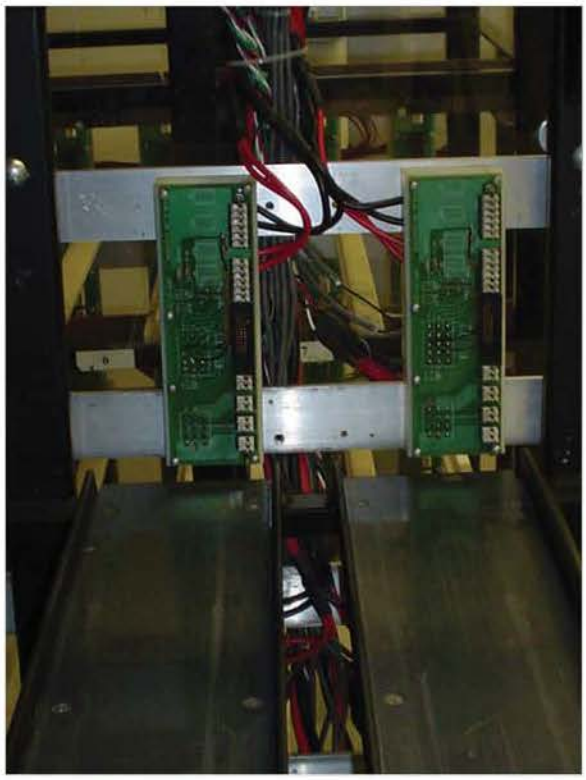
24 Unit Burn-In Cart for 5kW Bulk Power Regulators



Close-Up of 2 Slots showing PCBs with UUT Mating Connectors

Front view of Burn-In Cart with 24 Slots

ESS / VIBE / BURN-IN SYSTEMS

Application: 3 Phase 5kW AC/DC Bulk Power Regulators Burn-In

Features:

- AC Input Power Control Box with Power Cycling Timer
- External Resistive Load Connection
- Strong one piece frame for heavy Power Supplies
- Large casters for easy mobility

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Regenerative Burn-In Systems
Inverters to Re-Cycle Power

Front view of Burn-In Cart and Inverters

Rear view of Burn-In Cart and Inverters

ESS / VIBE / BURN-IN SYSTEMS

Front view of Multiple Burn-In Systems

Application: 3kW AC/DC Power Supplies Burn-In, 1.2kW Inverter Burn-In

Features: 32 Power Supply Slots per Burn-In System

120 Inverter Slots per Burn-In System

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Monitoring Software

ESS / VIBE / BURN-IN SYSTEMS

ESS/Vibe/Burn-In Monitoring Software

Main Screen of the FineTest Burn-In Monitoring Software showing

12 UUTs installed, Test Data displayed in Real-Time,

Temperature Alarm and Input Voltage Alarm LEDs,

Current Temperature inside the Thermal Chamber,

Power Cycling Control,

Number of Thermal Cycles performed,

and the current step in the cycle

Step 1: Cold Soak

Step 2: Cold to Hot Ramp Up

Step 3: Hot Soak

Step 4: Hot to Cold Ramp Down

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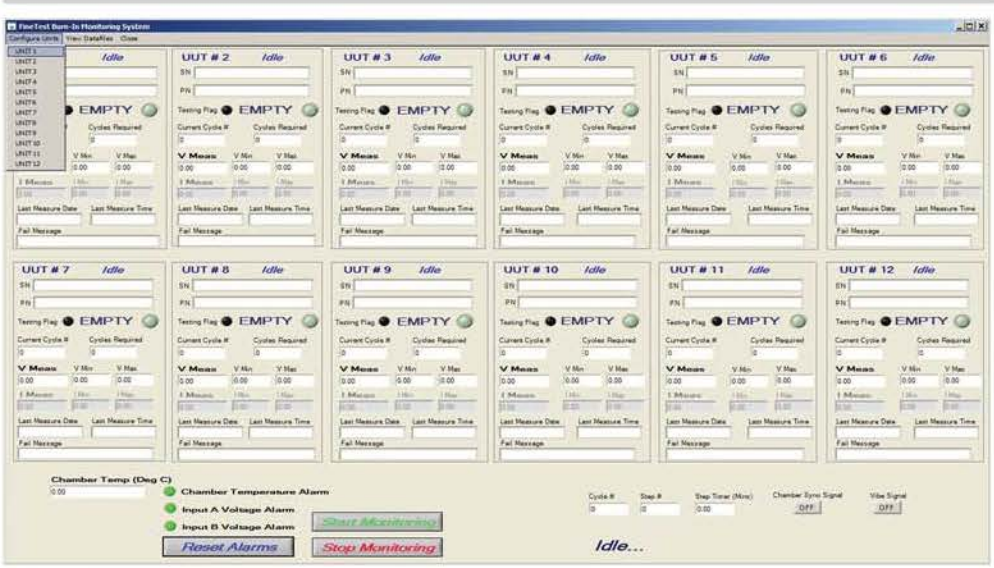
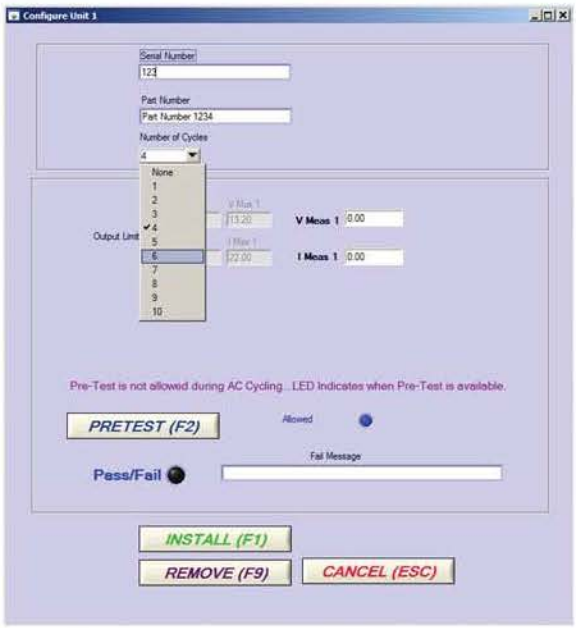
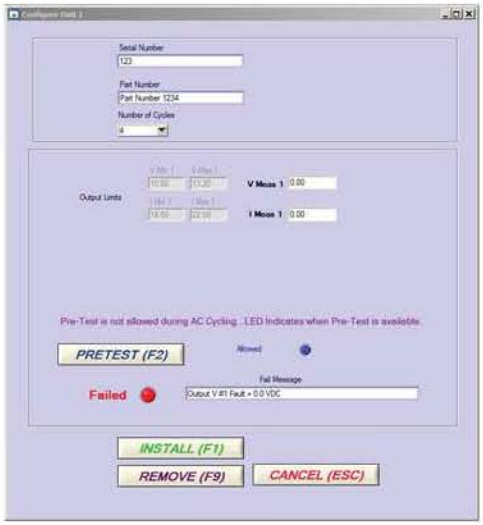


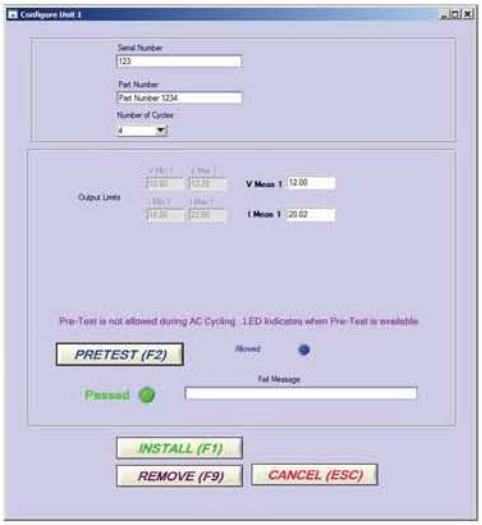
Selecting Configure Units



The Configure Unit Panels allow the operator to enter UUT Serial Number and select the number of cycles

ESS / VIBE / BURN-IN SYSTEMS





The operator can also run a pretest to verify the unit is operational and connected correctlly before starting the ESS/Vibe/Burn-In cycles.

Pretest Failed

Pretest Passed

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ESS / VIBE / BURN-IN SYSTEMS

Sample Main Display Panel with 12 UUTs installed: 8 still Testing, 2 Completed and 2 Failiures

Each Slot on the Main Panel displays the UUT's data including:

Serial Number and Part Number

Testing/Offline, Completed, or Empty

Pass or Fail Status,

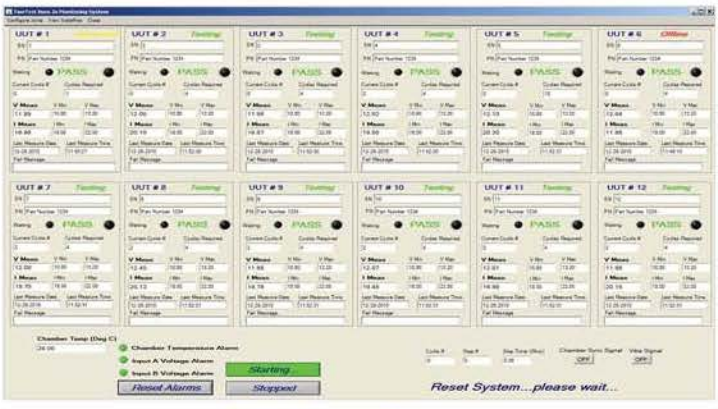
Total cycles required & current cycle for the UUT

Each UUT has unique cycle count/cycles required

Test Results Data (Voltage, Current),

Last Measurement Date/Time Stamp

Any Failure Message



Monitoring Started

Monitoring Stopped

Monitoring can be Started or Stopped at any time.

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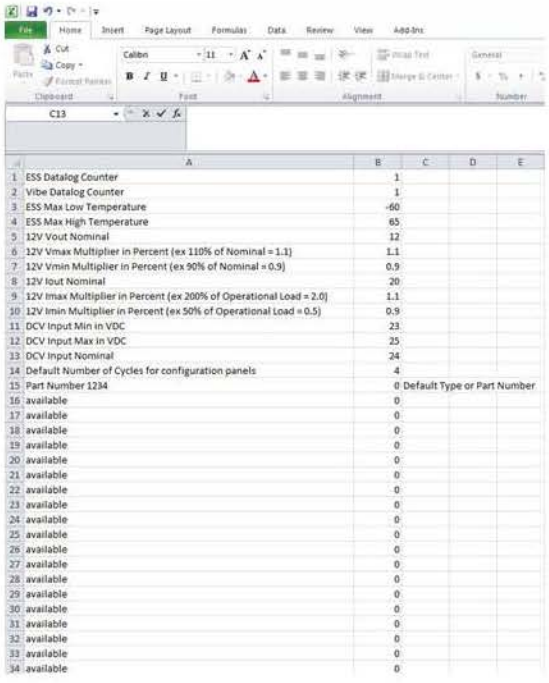
If either of the Dual Input Voltages, or the Chamber Temperature goes out of limits,
this is considered an Alarm Condition and all UUTs are shutdown.
The display shows ALARM for all of the UUTs in red.
The software can be configured to automatically reset the alarm condition
when the Input Voltage and/or Chamber Temeperature are back in limits
or require the Operator to click the Reset Alarms button.



	A	B	C	D	E
1	ESS Datalog Counter	1			
2	Vibe Datalog Counter	1			
3	ESS Max Low Temperature	-60			
4	ESS Max High Temperature	65			
5	12V Vout Nominal	12			
6	12V Vmax Multiplier in Percent (ex 110% of Nominal = 1.1)	1.1			
7	12V Vmin Multiplier in Percent (ex 90% of Nominal = 0.9)	0.9			
8	12V Iout Nominal	20			
9	12V Imax Multiplier in Percent (ex 200% of Operational Load = 2.0)	1.1			
10	12V Imin Multiplier in Percent (ex 50% of Operational Load = 0.5)	0.9			
11	DCV Input Min in VDC	23			
12	DCV Input Max in VDC	25			
13	DCV Input Nominal	24			
14	Default Number of Cycles for configuration panels	4			
15	Part Number 1234	0	Default Type or Part Number		
16	available	0			
17	available	0			
18	available	0			
19	available	0			
20	available	0			
21	available	0			
22	available	0			
23	available	0			
24	available	0			
25	available	0			
26	available	0			
27	available	0			
28	available	0			
29	available	0			
30	available	0			
31	available	0			
32	available	0			
33	available	0			
34	available	0			

Configuration Data and Default Values
for any of the test paramters
can be set in an Excel File.
This includes the Min/Max Temperature,
Nominal Output Voltages and Currents,
Test Limits, Number of Cycles etc.
The file is read when the program starts
and populates the variables, display boxes, etc.

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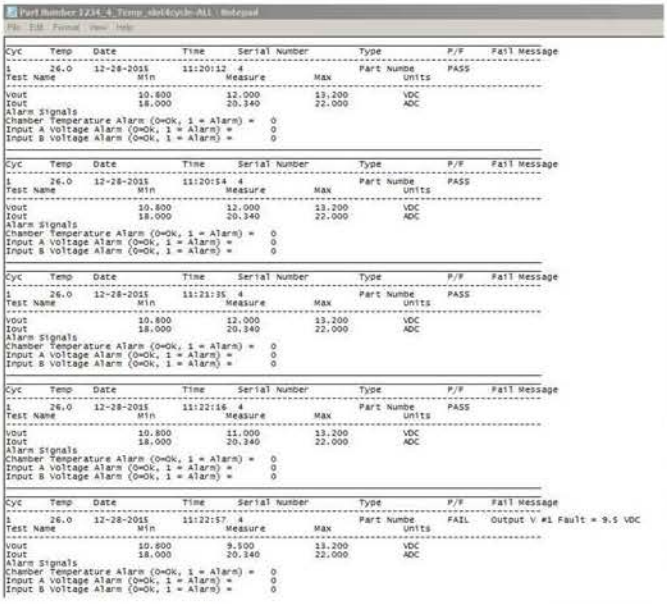
Monitoring Software
Test Data Storage

ESS / VIBE / BURN-IN SYSTEMS

Data is stored individually by
Part #, Serial #, Slot #, and Cycle #.

Data is also stored as a Summary file
of all cycles for each Slot.

Data is stored in Text and Excel Format



Cyc Temp Date Time Serial Number Type P/F Fail Message

1 26.0 12-28-2015 11:20:12 4 Part Numbe PASS

Test Name Min Measure Max Units

vout 10.800 12.000 13.200 VDC
Iout 18.000 20.340 22.000 ADC
Alarm Signals
Chamber Temperature Alarm (0=Ok, 1 = Alarm) = 0
Input A Voltage Alarm (0=Ok, 1 = Alarm) = 0
Input B Voltage Alarm (0=Ok, 1 = Alarm) = 0

Cyc Temp Date Time Serial Number Type P/F Fail Message

1 26.0 12-28-2015 11:20:54 4 Part Numbe PASS

Test Name Min Measure Max Units

vout 10.800 12.000 13.200 VDC
Iout 18.000 20.340 22.000 ADC
Alarm Signals
Chamber Temperature Alarm (0=Ok, 1 = Alarm) = 0
Input A Voltage Alarm (0=Ok, 1 = Alarm) = 0
Input B Voltage Alarm (0=Ok, 1 = Alarm) = 0

Cyc Temp Date Time Serial Number Type P/F Fail Message

1 26.0 12-28-2015 11:21:35 4 Part Numbe PASS

Test Name Min Measure Max Units

vout 10.800 12.000 13.200 VDC
Iout 18.000 20.340 22.000 ADC
Alarm Signals
Chamber Temperature Alarm (0=Ok, 1 = Alarm) = 0
Input A Voltage Alarm (0=Ok, 1 = Alarm) = 0
Input B Voltage Alarm (0=Ok, 1 = Alarm) = 0

Cyc Temp Date Time Serial Number Type P/F Fail Message

1 26.0 12-28-2015 11:22:16 4 Part Numbe PASS

Test Name Min Measure Max Units

vout 11.000 12.000 13.200 VDC
Iout 18.000 20.340 22.000 ADC
Alarm Signals
Chamber Temperature Alarm (0=Ok, 1 = Alarm) = 0
Input A Voltage Alarm (0=Ok, 1 = Alarm) = 0
Input B Voltage Alarm (0=Ok, 1 = Alarm) = 0

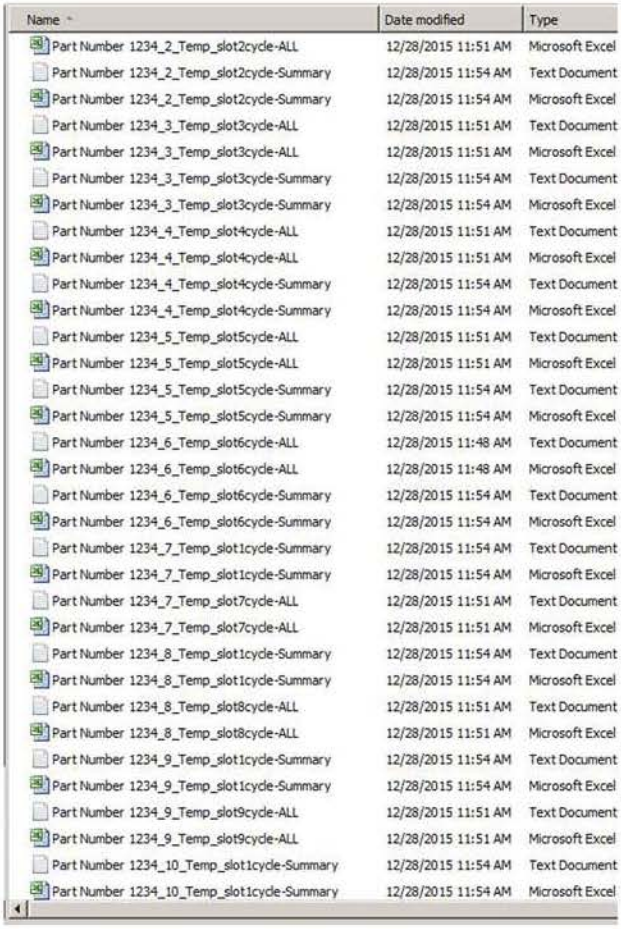
Cyc Temp Date Time Serial Number Type P/F Fail Message

1 26.0 12-28-2015 11:22:57 4 Part Numbe FAIL Output V #1 Fault = 9.5 VDC

Test Name Min Measure Max Units

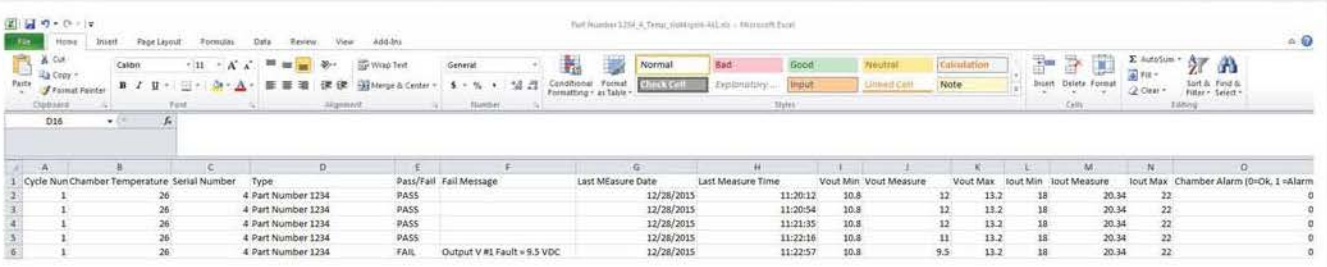
vout 10.800 9.500 13.200 VDC
Iout 18.000 20.340 22.000 ADC
Alarm Signals
Chamber Temperature Alarm (0=Ok, 1 = Alarm) = 0
Input A Voltage Alarm (0=Ok, 1 = Alarm) = 0
Input B Voltage Alarm (0=Ok, 1 = Alarm) = 0

Test Data Summary in Text Format



Name	Date modified	Type
Part Number 1234_2_Temp_slot2cycle-ALL	12/28/2015 11:51 AM	Microsoft Excel
Part Number 1234_2_Temp_slot2cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_2_Temp_slot2cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel
Part Number 1234_3_Temp_slot3cycle-ALL	12/28/2015 11:51 AM	Text Document
Part Number 1234_3_Temp_slot3cycle-ALL	12/28/2015 11:51 AM	Microsoft Excel
Part Number 1234_3_Temp_slot3cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_3_Temp_slot3cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel
Part Number 1234_4_Temp_slot4cycle-ALL	12/28/2015 11:51 AM	Text Document
Part Number 1234_4_Temp_slot4cycle-ALL	12/28/2015 11:51 AM	Microsoft Excel
Part Number 1234_4_Temp_slot4cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_4_Temp_slot4cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel
Part Number 1234_5_Temp_slot5cycle-ALL	12/28/2015 11:51 AM	Text Document
Part Number 1234_5_Temp_slot5cycle-ALL	12/28/2015 11:51 AM	Microsoft Excel
Part Number 1234_5_Temp_slot5cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_5_Temp_slot5cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel
Part Number 1234_6_Temp_slot6cycle-ALL	12/28/2015 11:48 AM	Text Document
Part Number 1234_6_Temp_slot6cycle-ALL	12/28/2015 11:48 AM	Microsoft Excel
Part Number 1234_6_Temp_slot6cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_6_Temp_slot6cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel
Part Number 1234_7_Temp_slot1cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_7_Temp_slot1cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel
Part Number 1234_7_Temp_slot7cycle-ALL	12/28/2015 11:51 AM	Text Document
Part Number 1234_7_Temp_slot7cycle-ALL	12/28/2015 11:51 AM	Microsoft Excel
Part Number 1234_8_Temp_slot1cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_8_Temp_slot1cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel
Part Number 1234_8_Temp_slot8cycle-ALL	12/28/2015 11:51 AM	Text Document
Part Number 1234_8_Temp_slot8cycle-ALL	12/28/2015 11:51 AM	Microsoft Excel
Part Number 1234_9_Temp_slot1cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_9_Temp_slot1cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel
Part Number 1234_9_Temp_slot9cycle-ALL	12/28/2015 11:51 AM	Text Document
Part Number 1234_9_Temp_slot9cycle-ALL	12/28/2015 11:51 AM	Microsoft Excel
Part Number 1234_10_Temp_slot1cycle-Summary	12/28/2015 11:54 AM	Text Document
Part Number 1234_10_Temp_slot1cycle-Summary	12/28/2015 11:54 AM	Microsoft Excel

Data is stored in Text and Excel Format



Cycle Num	Chamber Temperature	Serial Number	Type	Pass/Fail	Fail Message	Last MEasure Date	Last Measure Time	Vout Min	Vout Measure	Vout Max	Iout Min	Iout Measure	Iout Max	Chamber Alarm (0=Ok, 1 =Alarm
1	26	4	Part Number 1234	PASS		12/28/2015	11:20:12	10.8	12	13.2	18	20.34	22	0
1	26	4	Part Number 1234	PASS		12/28/2015	11:20:54	10.8	12	13.2	18	20.34	22	0
1	26	4	Part Number 1234	PASS		12/28/2015	11:21:35	10.8	12	13.2	18	20.34	22	0
1	26	4	Part Number 1234	PASS		12/28/2015	11:22:16	10.8	11	13.2	18	20.34	22	0
1	26	4	Part Number 1234	FAIL	Output V #1 Fault = 9.5 VDC	12/28/2015	11:22:57	10.8	9.5	13.2	18	20.34	22	0

Test Data Summary in Excel Format

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FineTest
Burn-In Monitoring Software

ESS / VIBE / BURN-IN SYSTEMS

Front view of FineTest Burn-In Monitoring Software

Application:

Burn-In Monitoring for High Volume Production

Features:

Install or Remove a UUT without disrupting other UUTs

Independent slot monitoring enables different types of UUTs to be monitored side by side, in the same software, at the same time

Monitors any combination of the following:

- Input Voltage, Output Voltage, Digital Hi or Lo,
- Status Bits from UUT through RS232, RS485 or i2c

Controls Power Cycling and Thermal Chamber Temperature

Facility Power Outage: Automatic Software Recovery to pre-fault state

FineSoft on LabWindows CVI platform

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Station Display Panel

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The Station Display Panel shows all of the Slots in that Station,

and also displays which Station # and Slot # is currently being monitored

Each Slot shows:

SN	*Serial Number*
P/F	*Pass or Fail Status (UUT is passing until a failure has occurred)*
L. Mon.	*Last time this UUT was Monitored*
BI T.	*Time this UUT has been in Burn-In, or COMPLETED when max Burn-In Time reached*
M. BI.	*Maximum Burn-In Time for this UUT*
TRUE	*Digital Logic TRUE is Hi or Lo*

When monitoring Output Voltage, the voltage is shown

When monitoring Status Bits, the Bit value is shown

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Printing Chamber Status and Viewing Station Display Panels

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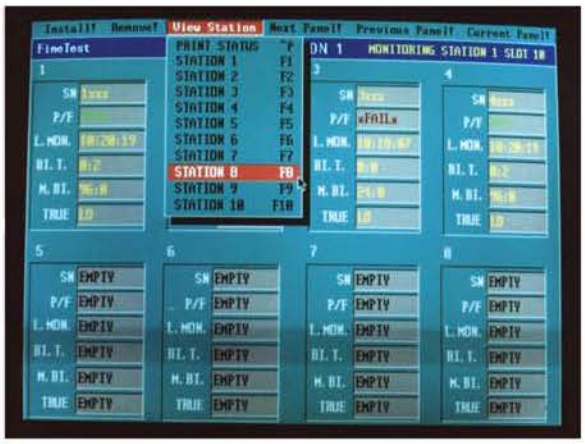
Print Status

View entire Chamber Status on paper

View Station



View a specific station display panel

Next Panel

View the next station display panel

Previous Panel

View previous station display panel

Current Panel

View station currently being monitored

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Installing & Removing a UUT

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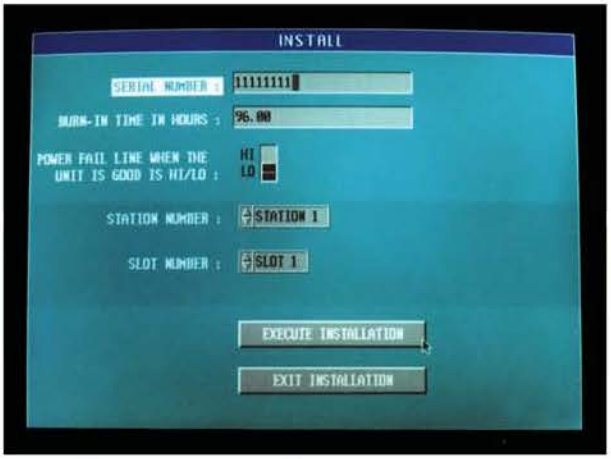
Install a UUT

Click on Install! to install a new UUT



To install a UUT:

Enter the Serial Number

Enter the Burn-In Time

Select Power Fail Line Hi/Lo

Select Station #

Select Slot #

Remove a UUT

Click on Remove! to remove a UUT

To Remove a UUT:

Select Station #

Select Slot #

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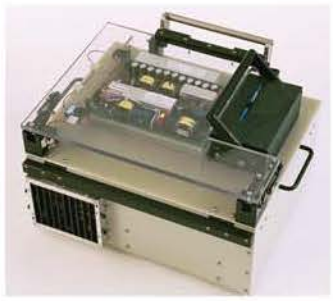






FineTest Production Floor


FineTest Building at 1 Industry Drive

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FineTest 1 Industry Drive, Palm Coast, FL 32137 Tel: (386) 446-0463 Fax: (386) 446-0465 email: sales@finetest.com