



# Electrical Avionic Compliance System

## Benefits

Turnkey solution for compliance avionic requirement

Extended test libraries :

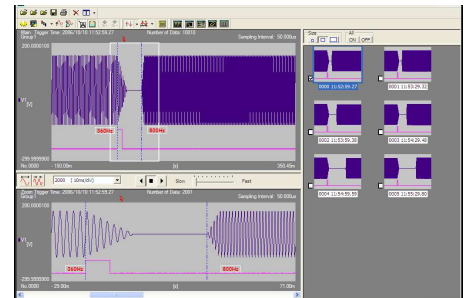
- ✓ Airbus ABD100 (Tables A-B-C-D/E)
- ✓ Airbus AMD24 (Tables SVF/SCF-TVF/TCF-LDC)
- ✓ Boeing Power Quality (Tables AC-DCLow-DCHigh)
- ✓ DO160 – EN2282 – Eurocae - Custom tables

Optional qualification & measurement System

Data report & archive's management

Compatible with Elgar SW source and SWCS software

Available as module for custom system integration



*The Avionic Compliance Procedure requires to run a large quantity of individual tests to verify the conformity of components or sub-systems, submitted at complex and variable AC&DC power sources.*

## Applications

The **Electrical Avionic Compliance System** from MBE, is a unique combination of hardware and software to comply with the testing requirements of Avionic components and sub-systems, according the complex procedures established by EADS or BOEING.

The system platform software uses the Elgar SmartWave AC Source to provide the complex AC and DC power to run the tests, and the Yokogawa ScopeCorder multi-channels to record the results, check the compliance, print the data report and save all executed scenarios.

There are thousands of test sequences that will be setup, run and record automatically, bringing the quality assurance of automatic system, and saving months of engineering cost.



*The Electrical Avionic Compliance System from MBE, is driven by a software platform able to drive the Elgar SW and Yokogawa SC, run the sequences by setting-up the hardware, record the data test results, verify the compliance and print a data test certificate.*

# Electrical Avionic Compliance System

## Components

### Elgar SW AC/DC source

Available in 1 or 3 phases from 1750VA to 21kVA. The direct output allows you to generate very fast transients, and in general all the waveforms needed for Compliance Tests.

### Yokogawa ScopeCorder

This unique combination of scope (16 bits resolution) and recorder (up to 16 isolated multifunction channels on a large screen, storage memory...) is the perfect tool to record the data tests and results, and check the conformity.

### Elgar DMAC AC source

Allows to boost the SW from few kVA up to 480kVA, or even more. The modular concept allows you to increase, when needed, the power by step of 10kVA/phase.

### MB Electronique EACS Software

Developed to drive the power source (Elgar SW and DMAC), setup the ScopeCorder, record the data, compare to acceptance rules, print results certificate, and store them in database.

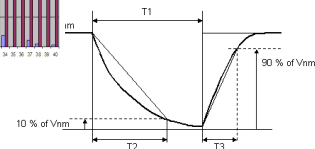
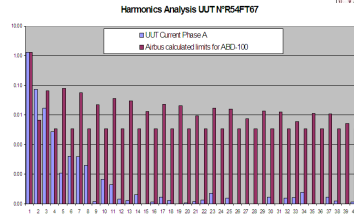
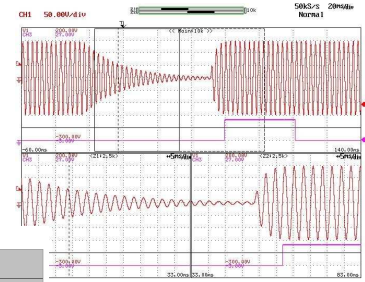


FIGURE B

*Few examples of Compliance test waveforms applied on the main Power of the Unit Under Test. This will allow the EACS to establish the conformity in two major domains : harmonics & timing, for the components and sub-systems in regards of the Avionic Standards.*

## Ordering Information

**EACSS** – EACS Basic Software (PC Windows) needed to run the following tests.

- ABD100T-A** – ABD100 Table A only
- ABD100T-B** – ABD100 Table B only
- ABD100T-C** – ABD100 Table C only
- ABD100T-DE** – ABD100 Table D&E only
- ABD100T-Full** – ABD100 Table A-B-C-D-E

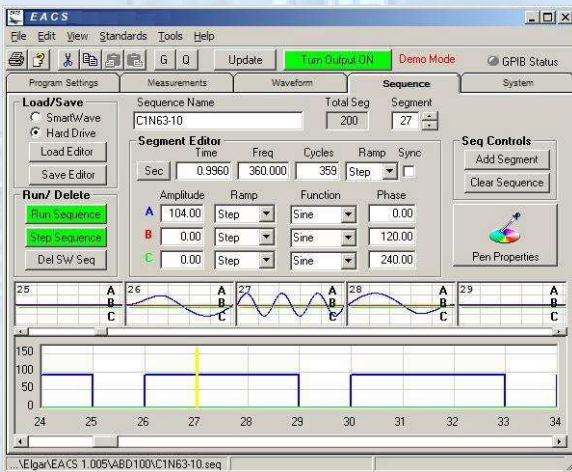
- AMD24T-SVF/SCF** – AMD24 Table SVF & SCF only
- AMD24T-TVF/TCF** – AMD24 Table TVF & TCF only
- AMD24T-LDC** – AMD24 Table LDC only
- AMD24T-Full** – AMD24 Table SVF-SCF-TVF-TCF-LDC

- EN2282T-AC** – EN2282 Table AC only
- EN2282T-DC** – EN2282 Table DC only
- EN2282T-Full** – EN2282 Table AC&DC

- PQT-AC** – Power Quality Table AC only
- PQT-DCLV** – Power Quality Table DC Low Voltage only
- PQT-Full** – Power Quality Table AC&DC

- CMH-1P** – Compliance & Measurement Hardware - ScopeCorder 1 phase (inc. acc./drivers/report print/database)
- CMH-3P** – Compliance & Measurement Hardware - ScopeCorder 3 phase (inc. acc./drivers/report print/database)

For Elgar AC/DC source, please contact us. We will provide the best information according your application.



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