MPT
Multi-point Electrical Interconnect Testing

www.nexeya.com
MPT Multi-point Electrical Interconnect Testing Solutions

The MPT analyzers offer to users robust equipment, enhanced modular software, improved test speeds, virtually unlimited integration and expansion options and a complete suite of operator guidance tools to make testing even easier and more automated than ever before.

Mass Hi-pot Algorithm
Provides complete test coverage in a fraction of the time required by conventional linear test methods.

Backplane Testing
Brings switching test points directly to high density backplanes, replacing multiple and messy adapter cable connections with one simple daisy-chain cable.

Soak & Measure
Allows multiple chip capacitors and/or filter connectors to be charged simultaneously in one cycle prior to measurement, greatly increasing test output and efficiency.

Scan Testing
Enables all test points to be scanned every 10μs for discontinuity, ideal for environmental stress stations during multi axial vibration and thermal cycle testing.

Dynamic Resistance Testing
Performs approximately 4,000 electrical measurement per second, ideal for slip ring tests requiring statistical data to evaluate noise and rms.

Activation & Energization
Allows energization of relays to measure contact resistance or switched voltages, ideal for functional and safety testing.

Transient Voltage Suppressor (TVS) or Transorb™ Testing
Verifies lightning protection devices using mandatory TVS testing for a variety of embedded products.

Test Reengage
Enables tests to be paused after a failure and reengaged after debugging, eliminating the need to repeat already verified test sequences and saving overall test times.

Automatic Program Generator
Enables export of data from popular cable & harness design software for automatic conversion to be used by the MPT2 Studio software.
The Challenge:
Small dedicated systems tend to be underpowered and aimed at executing simple tasks. Large systems can be overly complex and require expert users.

The Solution:
The MPT platform.

The Approach:
A solution that offers standard easy to use "point and click" interfaces for specific functions and applications with programmable features that enable experts to push limits.

MPT standard Features:
- Multilingual easy to use operator Interface
- Wireless operator interface
- Intelligent diagnostic tools
- User test program development & modification
- Unlimited test point expansion capability
- Measurement and energization from all available test points
- PC controlled via TCP/IP
- High speed testing with “Mass Hipot” and Mass Isolation”
- “Pause on Fail” real time failure analysis
- “Connect Anywhere” setup automation tools
- Supertrace” nets for complete colour-coded connectivity map
Use cases

**Aircraft Power Distribution System** - Functional and discontinuity test

**Fighter Mid-Life Upgrade**

**Service Depot Train Line** - Safety and communication systems verification

**High-Speed Train** - Complete FAL wiring system test

**Space Program** - Rocket launch connectors testing

**Military Communication Shelters** - Backplanes test

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