

2026

Q3 NEWSLETTER
MID-ATLANTIC EDITION

THE PROTEQ PULSE

*Your Quarterly Connection to the
Pulse of the Industry -*



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Discover how the HSY9100A Series Ultra-Low Noise Synthesizer delivers outstanding signal purity and frequency stability for demanding RF and microwave test applications. With industry-leading phase noise, exceptional spectral purity, and a compact 1U design with up to two independently tunable channels, it's an ideal solution for precision testing in space-constrained environments.

06 **Maury Microwave - Holzworth HA7162D Series Phase Noise Analyzer**

Achieve unmatched accuracy with the Holzworth HA7162D Series Phase Noise Analyzer, designed for real-time phase noise analysis. With support for both absolute and additive measurements, it provides the precision engineers need for advanced RF and microwave testing.

07 **Maury Microwave - Solid State Amplifiers to 98 GHz**

Power your next breakthrough with Maury Microwave's Solid-State Amplifiers, offering reliable performance up to 98 GHz. Built to meet the demands of modern RF environments, they deliver the precision and dependability required for advanced test and communication systems.

08 **TRANSCAT - Support • Selection • Service**

Explore Transcat's extensive selection of rental, used, and refurbished test equipment, with thousands of instruments in stock and ready to ship. Backed by expert support, broad selection, and dependable service, it's a trusted source for keeping your projects moving.

CONTACT INFORMATION



REXGEAR

Your Power Solution Expert



IT8000 Series High Power Regenerative DC Electronic Load (5KW to 2MW)



- Max voltage/current/power: 2250 V, ± 120 A, ± 18 kW
- Expandable power up to 1152 kW in parallel.
- Returns DC energy to the local grid with up to 95% efficiency.
- 8 operating modes: CC/CV/CW/CP/CC+CV/CV+CR/CR+CC/CC+CV+CW+CR

IT6500 Series (800W~6kW) Wide-range DC Power Supply

- Max voltage/current/power: 1000V, 1200A, 800W
- High power density: 30kW in 3U
- High current up to 1200A
- Programmable output with wide-range high-power



IT-M3300 Series Regenerative DC Electronic Load (1U ½ Rack 200W to 800W)



- Max voltage/current/power: 600V, ± 12 A, ± 800 W
- Battery discharge testing: Restore energy effectively from the grid
- 1U half-rack, ideal for low-power module testing
- Programmable voltage and current rise and fall times

IT-M3800 Series Regenerative DC Electronic Load (1KW to 12kW)

- Max voltage/current/power: 1500V, 610A, 6kW
- Wide operating modes: CC/CV/CW/CP/CC+CV/CV+CR/CR+CC/CC+CV+CW+CR
- 1U half-rack, can perform as a DC load and feed back power to the grid.
- High-precision output and measurement with multiple protection functions.



IT6000D series (5kW~2MW) High Power Programmable DC Power Supply

- Max voltage/current/power: 1000 V, 1200 A, 800 W
- Max voltage/current/power: 2250 V, 120 A, 18 kW
- High power density: 18 kW in 3U, expandable up to 2 MW through paralleling
- Stable, high-power operation with current up to 2040 A through parallel operation
- Capable of switching between CV and CC priority modes



IT-M3900D series (1700W~12kW) Compact Size High Power DC Power Supply

- Max voltage/current/power: 1500 V, 510 A, 6 kW
- 1U half-rack design, ideal for low-power module testing
- High current in a 2U parallel configuration
- Optical fiber cables with no EMI effects



Vibration Test Systems

Water Cooled



Key Features & Capabilities

- **Comprehensive Test Modes** — Supports a full suite of vibration profiles: sinusoidal sweep, random vibration, resonance search & dwell, classical shock, combined modes, transient simulation, and road spectrum simulation
- **Standards Compliance** — Testing conforms to major technical standards such as GB, IEC, UL, and others to ensure reliability and broad acceptance.
- **Modular & Expandable Control** — The vibration controller is modular, with distributed data processing and scalable channels to expand function or capacity.

Mechanical



Key Features & Capabilities

- **Transport Vibration Simulation** — It replicates the kinds of vibration stresses products face during handling, shipping, and operation
- **Standards Compliance** — Testing conforms to major technical standards such as GB, IEC, UL, and others to ensure reliability and broad acceptance.
- **Versatility** — Suited for a wide range of product types: from electronic devices and batteries to mechanical parts and instrumentation.

Air Cooled



Key Features & Capabilities

- **Full Vibration Modes** — Supports sinusoidal, random, resonance search & dwell, classical shock, road spectrum simulation, and hybrid modes under one roof.
- **Long-Duration Operation** — Designed for extended use with stable performance, making it ideal for endurance and reliability testing.
- **Vertical & Horizontal Testing** — Offers flexibility in orientation (vertical/horizontal) via an installation of a vibration-resistant base.



HSY9100A SERIES

ULTRA-LOW NOISE SYNTHESIZER



The HSY9100 Series RF synthesizers deliver industry-leading phase noise and spectral purity in a compact 1U chassis with 1–2 independently tunable channels. Ideal for space-limited test racks, and each unit ensures high frequency accuracy, stability, and phase coherency via Holzworth’s multi-loop architecture.

- Fully isolated, independent channels for unmatched signal integrity and control
- Phase-coherent channels ensure precise synchronization across all outputs
- Exceptional channel-to-channel stability for precise, phase-locked performance
- Scalable frequency range: 10 Hz to 3, 6, 12, or 20 GHz, tailored to your application
- Typical phase noise performance at a 10 kHz offset:
 - 6 GHz: -135 dBc/Hz
 - 12 GHz: -123 dBc/Hz
 - 20 GHz: -118 dBc/Hz

HA7162D SERIES

PHASE NOISE ANALYZER



LEARN MORE



The Holzworth HA7162D delivers high-performance, real-time phase noise analysis with unmatched precision. Supporting both absolute and additive measurements, it is the go-to solution for RF and microwave testing in aerospace, communications, and quantum applications.

- Capture offset frequencies from 0.1 Hz to 100 MHz with exceptional clarity
- Automated absolute and residual (additive) phase noise measurements for streamlined analysis
- Real-time cross correlation improves dynamic accuracy and reduces measurement time
- Wide input frequency coverage: 10 MHz to 26 GHz, with optional extension to 40 GHz





maury



SOLID STATE AMPLIFIERS TO 98 GHZ



Maury Microwave's Solid-State Amplifiers deliver reliable, high-performance power up to 98 GHz for a wide range of advanced applications. Engineered for precision and built to meet the demands of today's RF environments, these amplifiers are the trusted solution for test, measurement, and communication systems.

- Equipped with state-of-the-art GaN amplifiers for robust, efficient signal transmission
- Designed with wideband frequency coverage to power modern communication and defense systems
- Maintains strong, continuous power output across all operating frequencies
- Engineered for high linearity to support advanced wideband communication systems
- Integrated protection for enhanced reliability and hardware safety
- Flexible variable gain control for precise signal tuning
- High-resolution display provides clear, real-time amplifier status at a glance
- Power levels up to 1 kW

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