2026

Q1 NEWSLETTER

NEW ENGLAND EDITION

THE PROTEQ PULSE

Your Quarterly Connection to the Pulse of the Industry -

PROTEQ SOLUTIONS

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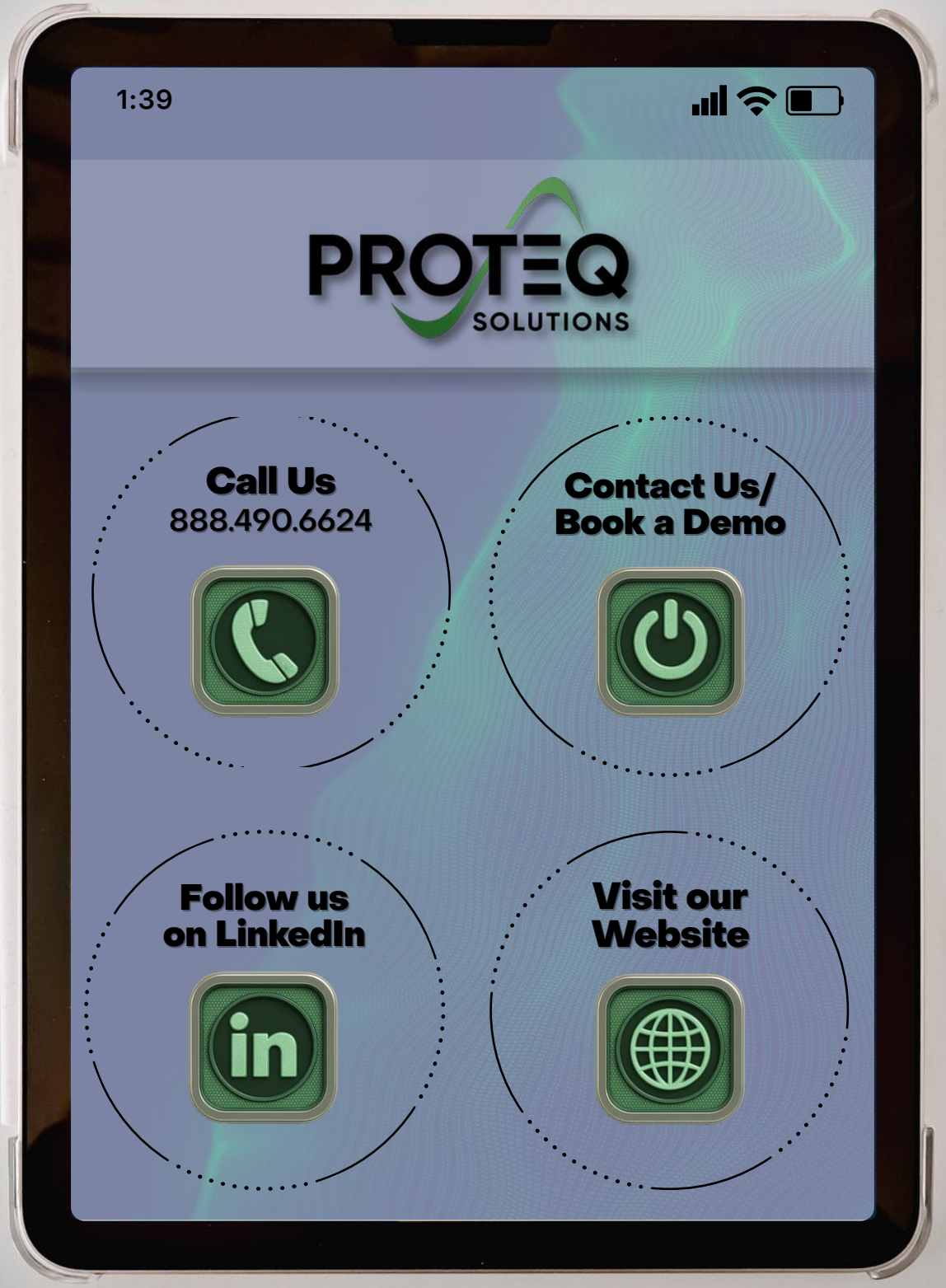

To Our Valued Customers & Manufacturing Partners

As we close the chapter on another year, we want to take a moment to sincerely thank you and extend our warmest wishes to you and your teams. We hope you enjoyed a restful and meaningful holiday season, surrounded by family, friends, and moments that matter most. As we step into the New Year, we do so with excitement, optimism, and gratitude for the opportunities ahead.

The year ahead holds a great deal in store for **ProTEQ Solutions**. We are energized by new partnerships, continued innovation across the industries we serve, and the opportunity to further support our customers with trusted solutions, expertise, and service. Our commitment remains the same: to be a reliable, knowledgeable partner that helps you navigate challenges, meet testing demands, and achieve success with confidence.

We would not be where we are today without the strength of our manufacturing partners and the trust of our customers. Their collaboration, loyalty, and shared commitment to excellence are the foundation of everything we do, and for that, we are truly thankful. As we move forward together into the New Year, we look forward to strengthening relationships, creating new opportunities, and continuing to grow together.

This past October marked an exciting milestone for **ProTEQ Solutions** with the launch of our newly redesigned website. Built to better serve our customers and partners, we invite you to explore and get to know our team a little better. Below, you'll find links that connect you directly with your regional **ProTEQ** representative. We encourage you to take a moment to learn more about your local point of contact and reach out, we're always here to help.

From all of us at **ProTEQ Solutions**, we wish you a happy, healthy, and successful New Year!

GARY HOLBROOK

- MA (NORTH SHORE)
- VERMONT
- MAINE
- NEW HAMPSHIRE

GARY'S BIO

CHRIS POLING

- CENTRAL MA (RT 495)
- METRO-BOSTON (RT 95)

CHRIS' BIO

ALDO GUARINO

- BAE SYSTEMS
- *HANSCOM AFB*
- *RAYTHEON*
- *TERADYNE*
- *LOCKHEED MARTIN*

ALDO'S BIO

JEREMY MARKS

- *CONNECTICUT*
- *RHODE ISLAND*
- *WESTERN MA*

JEREMY'S BIO

STEVE MOLOY

- *EASTERN MD*
- *EASTERN SHORE VA*
  - *NORTHAMPTON*
  - *ACCOMACK COUNTIES*

STEVE'S BIO

JAY WANG

- *WASHINGTON DC*
- *WESTERN MD*
- *VIRGINIA*

JAY'S BIO

AMPLIFY WITH CONFIDENCE.

Power. Precision. Reliability.

High-Performance Amplifiers by Maury Microwave

Not all amplifiers are created equal, so how can you be certain that an amplifier will work for your needs? You deserve to be confident that the amplifiers used with your test-and measurement lab benches will meet the requirements of your specific applications, are reliable, and are equally well-supported pre-and post-sale. When it comes to application expertise, reliability and support, there is no company that does it better than Maury.

LEARN MORE

Why Maury?

- Wideband Coverage – Frequency Range up to 92GHz
- High Output Power – Power Range up to 10KW
- Exceptional Linearity – Cleaner Signals, Better Data
- Mission-Ready Design – Built for EW, EMC, SATCOM & more
- Pulsed, CW and EMC RF Amps - Custom RF Amps Upon Request

AMPLIFYING PRECISION FOR YOUR MOST CHALLENGING REQUIREMENTS

Whether you need to simulate electromagnetic interference to ensure EMC compliance, achieve low phase noise for lab and manufacturing environments, or conduct precise component testing and validation, Maury has the solution you need. Maury's range of EMC, T&M, and low phase noise amplifiers are designed to meet your unique testing demands, delivering peak performance across every application.

TELEDYNE LECROY
Everywhereyoulook™

SierraNet Ethernet Protocol Analyzer and Jammer

Ethernet Network Test Solutions for Traffic Generation and Analysis

MORE INFO

The **SierraNet Family of Ethernet Analyzers** and Jammers test platforms provide best in class Layer 1-7 traffic capture, analysis, and manipulation error injection for testing physical link characteristics and application operations for all layers of Ethernet. These products are designed to provide deep recording buffers to allow for easily capturing errors and simplifying the process for test, debug, and analysis.

Teledyne LeCroy's Ethernet test solutions are designed to provide the tools needed to fully validate and bring new network products to market through:

- Ethernet Traffic Generations
- Network Emulation
- Ethernet Protocol Analyzers
- Ethernet Error Injectors
- Xena Ethernet Test Platform

The Industry's #1 Protocol Analyzer for USB4 & USB 3.2

Legendary Voyager series offers unmatched accuracy for USB protocol analysis and compliance testing

The unprecedented adoption of USB Type-C has ushered in a new era of performance and convenience as consumers world-wide have embraced this new interface for power, data and display connectivity. From engineering validation to compliance test, trust the experts at Teledyne LeCroy to help ensure product quality for next generation USB systems.

- Analyze high speed USB
- Hardware triggering
- Complete protocol Decode
- Market-leading USB analyzers
- Accurate Compliance Testing and coverage

ON-DEMAND WEBINAR

Essentials of DisplayPort MST

Click the **Webinar** button above to register to view the recording.

Get ready for the next wave of DisplayPort certification requirements. This free technical webinar will provide a comprehensive overview of Multi-Stream Transport (MST) and the new compliance tests expected to become mandatory for VESA logo certification in Q4 2025.

Whether you're preparing for certification or building your test automation strategy, this presentation will help engineers, QA, and validation teams understand MST operation and compliance procedures for Source and Branch/Hub devices as defined in the latest Link Layer CTS.

Check out Teledyne's upcoming events, trainings and live/on-demand webinars, presented by Teledyne LeCroy technical experts.

Click HERE to stay informed

Key Topics:

- Introduction to MST in DisplayPort v2.1
- MST Link Operation and Maintenance
- Reference Test Platforms
- Compliance Tests for Source Devices
- Compliance Tests for Branch/Hub Devices
- Troubleshooting and Debugging Tips

You'll gain practical insights through detailed walkthroughs of MST test cases, expected device behaviors, and troubleshooting tips—perfect for newcomers and experienced validation teams gearing up for VESA certification.

AMETEK®
PROGRAMMABLE POWER

Sequoia Series Info HERE

Tahoe Series Info HERE

REGENERATIVE GRID SIMULATORS

The California Instruments **Sequoia Series** combines intelligence and flexibility with high power to create an advanced platform of AC solutions. Using a state-of-the-art SiC power switching architecture, this full four-quadrant product combines compactness, robustness, and functionality in a floor-standing chassis. This easy-to-configure power product covers a wide spectrum of single and multi-phase AC or single channel and multi-channel DC power applications at an affordable cost. With the add-on electronic load option, the **Sequoia Series** can support additional advanced renewable energy simulation and test requirements.

Testing Applications:

- Power Conditioning Equipment Testing
- Grid Interactive Green Energy & Distributed Power Generation Testing
- Avionics & Shipboard Electronics Testing
- Regulatory Compliance Testing
- Electric Vehicle Charger (EVSE, V2G) Testing
- Manufacturing Line Testers
- Advanced Renewable Energy Simulation and Testing
- IEEE 1547 Testing
- Motor testing

- **Model**: Sequoia Series
- **Voltage**: 0 - 333VAC
- **Current**: 0 - 3,000A/phase
- **Power**: 15kVA - 1.08MVA
- **Overview**: Precision Programmable Regenerative Grid Simulator

The California Instruments **Tahoe Series** combines intelligence and flexibility with high power to create an advanced platform of programmable AC/DC power sources. Using a state-of-the-art SiC power switching architecture and Digital Signal Processing, the Tahoe Series combines a robust, high-power AC/DC source with an advanced power analyzer in a single-floor standing chassis.

This easy-to-configure high-power source covers a wide spectrum of single and three-phase AC power sources or single-channel and multi-channel DC power supplies at an affordable cost. **Tahoe Series** can fulfill your power test requirement with add-on test application routines for military and commercial avionics testing.

- **Model**: Tahoe Series
- **Voltage**: 0 - 333VAC
- **Current**: 0 - 3,000A/phase
- **Power**: 15kVA - 1.08MVA
- **Overview**: Precision Programmable AC & DC Sources

Testing Applications:

- Power Conditioning Equipment Testing
- Military and Commercial Avionics Testing
- Shipboard Electronics Testing
- EN/IEC Regulatory Compliance Testing
- Manufacturing Line ATE
- Research and Development
- Residential and Commercial Appliance Testing
- Motor Testing and Analysis
- Power Quality Simulation

Watch the Video Here!

INTELLIPOWER

AMETEK®

Ensure Uninterrupted Power for Mission-Critical Microgrids with IntelliShield™ Rugged UPS

Power protection for energy resilience, efficiency, and reliability—trusted by the US Military and leading industries worldwide.

LEARN MORE

Why Microgrids Need Rugged UPS Solutions

In today's demanding energy environments, rugged reliability isn't optional—it's essential. Discover how **IntelliShield™** by **IntelliPower** delivers true mission-grade power protection for microgrids operating at the edge.

- **Black Start Capability**: Enables microgrids to start independently after outages or installation.
- **Power Conditioning**: Online double-conversion ensures clean, continuous power for sensitive controls and switchgear.
- **Battery Flexibility**: Choose VRLA for cost or LiFePO4 for high cycle life, safety, and efficiency.
- **Remote Monitoring**: SNMP and RS-232 for real-time diagnostics and management.
- **Extreme Ruggedness**: Built to MIL-STD-810 and MIL-STD-901 standards for harsh environments.

Key Features

Remote Power Supply

Wide Temperature tolerance, ideal for remote locations of critical operations—oil & gas, mining, environmental monitoring, and more.

Renewable Energy

Integration
Seamlessly integrates with solar, wind, and hybrid energy systems for sustainable, resilient microgrids.

Data Center & IT Backup

Provides uninterrupted power supply to data centers and IT infrastructure, ensuring operational continuity and data integrity

Microgrid Control Systems

Advanced control and switchgear protection for smart, automated microgrid management and black start capability.

Defense & Military

Rugged, field-proven, MIL-STD Certified UPS solutions for mission-critical military microgrids and mobile command centers.

Industrial Automation

Power protection for automated manufacturing and process control.

Scalability

Easily expand your microgrid system to meet growing energy demands without compromising performance.

Reliability

Designed for continuous operation, and optimized for minimal energy loss, helping you reduce operational costs and environmental impact.

Advanced Monitoring

Real-time, remote monitoring and analytics to keep track of energy usage and system performance.

Anritsu

Field Master™ MS2080A

Handheld RF Spectrum Analyzer with Real-Time Spectrum Analyzer Option

Anritsu's Field Master MS2080A RF Spectrum Analyzer is designed to offer the performance you need with the toughness required in a field portable instrument. Developed with 30 years' experience of designing RF test instruments for field technicians, the Field Master MS2080A integrates a spectrum analyzer, real-time spectrum analyzer (RTSA), cable and antenna analyzer, and WCDMA LTE/5G base station tester into a single battery powered instrument. An optional tracking generator enables the sweeping of filters, amplifiers and cables in the field.

- **Frequency Range**: 9 kHz to 4 GHz (Option 704)
- **Sweep Speed**: 45 GHz/s
- **Phase Noise**: -95 dBc/Hz @ 1 GHz freq and 100 kHz offset
- **Maximum Input Signal**: +30 dBm
- **Dynamic Range**: >105 dB minimum at 2.4 GHz, 2/3 (TOI-DANL) in 1 Hz RBW

LEARN MORE

Spectrum Master™ MS2760A

Ultraportable mmWave Spectrum Analyzer

The **Anritsu Spectrum Master MS2760A** ultraportable spectrum analyzers deliver the best-inclass price/performance ratio unmatched by traditional benchtop instruments. This enables you to more efficiently advance your technology development and reduce your time to market. The 145 GHz and 170 GHz models are the world's first handheld millimeter-wave spectrum analyzers to provide broadband, continuous coverage from 9 kHz to 170 GHz. These are the world's first and only broadband spectrum analyzers that break through the 110 GHz barrier and enable research and development in the entire D band spectrum. They are perfect for advanced millimeter-wave applications like radio astronomy, automotive radar, antenna beam pattern testing, and more.

- **Dynamic Range**: >103dB @ 70 GHz
- **Amplitude Accuracy:** ±0.5 dB, typical (20°C to 30°C)
- **Frequency Accuracy:** ± 0.2 ppm (25°C ± 25°C) + aging
- **Aging**: ± 1.0 ppm per year

LEARN MORE

Field Master Pro™ MS2090A

High-Performance Spectrum Analyzer with Real-Time Spectrum Analyzer Option

Built to deliver in the toughest environments. Our **Field Master Pro MS2090A** handheld spectrum analyzers have been built with over 30 years of experience developing test solutions for use by field technicians. With a large, 10.1-inch touch screen for quick and easy setup and result display, ruggedized case, and battery operation you can be confident of getting the job done wherever you go. Performance previously reserved for the lab now available in the field. The performance of the **Field Master Pro MS2090A** exceeds expectations for what can be achieved in a portable field instrument. 54 GHz frequency coverage coupled with 150 MHz measurement bandwidth and –164 dBm DANL delivers accuracy previously reserved for only benchtop instruments. Now, you can maintain complete confidence in your measurements wherever you are.

- **Analysis Bandwidth:** 150 MHz
- **Amplitude Range:** DANL to +30 dBm
- **Phase Noise at 1 GHz:** -110 dBc/Hz @ 100 kHz offset (typical)
- **Resolution Bandwidth:** 1 Hz to 10 MHz
- **Input SWR:** 1.5
- **Amplitude Accuracy:** < 14 GHz ±1.3 dB (±0.5 dB typical)

LEARN MORE

MG362x1A

Low Noise RF/Microwave Signal Generator

Rubidium MG362x1A offers atomic clock frequency stability with an internal rubidium frequency reference option. Alternatively, customers can also get exceptional frequency stability by calibrating an internal oven controlled crystal oscillator (OCXO) reference with an external GNSS/GPS signal. The exceptional frequency stability makes Rubidium an ideal signal generator for Metrology and high speed clock applications.

LEARN MORE

- **Frequency Range**: 9 kHz to 20/43.5 GHz/70 GHz Operable up to 72 GHz
- **Frequency Resolution**: 0.001 Hz
- **Phase Offset**: Adjustable in 0.1 degree steps
- **Modulation**: AM, FM, PM, Pulse and Pulse Train
- **LF Signal Generator Waveforms**: Sine, square, pulse, triangle, ramp, GN/UN noise
- **Frequency Sweep Modes**: Step, List, Analog (MG36221A and MG36241A only)
- **Reference Frequency Input/Output**: 10 MHz, 100 MHz and 1.6 GHz

EcoSyn™ Lite MG36021A

Lite Microwave Frequency Synthesizer

Anritsu's EcoSyn Lite MG36021A is a 10 MHz to 20 GHz CW Microwave frequency synthesizer module in a compact form factor with outstanding phase noise, ultra-fast switching speed and high output power. **EcoSyn Lite's** phase noise performance of -126 dBc/Hz (typical) at 10 GHz and 10 kHz offset is one of the best in its class. Along with non-harmonic spurious of -60 dBc (max), **EcoSyn Lite** can be used as a high purity clock source with low jitter for Gbit ADC/DAC testing and in high-speed optical systems.

LEARN MORE

<u>EcoSyn Lite MG36021A is ideal signal source</u>:

- For testing RF/mmWave components and subsystems in production
- For antenna and radar cross section measurements
- As a portable signal source for quick functional testing
- As a LO source with low phase noise for up/down converters
- As a low jitter clock source for Gbit ADC/DACs
- AS a clock in high speed optical systems
- As a CW signal source in RF/Microwave subsystems that require fast switching speed

"BRIDGING INNOVATION AND INDUSTRY"

PROTEQ SOLUTIONS

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