



October 2023

## What's New?

Raptor Scientific continues to expand our products and services, in this edition of our newsletter, we are excited to bring you the latest updates on our capabilities. Read on to learn about the latest advancements in the field, the importance of test and measurement equipment, and how the Raptor Scientific product lines can benefit your projects.

Let's dive in!

At Raptor Scientific we are focused on the consolidation and integration of highly specialized Testing and Measurement sector organizations. We completed our first acquisition, **Space Electronics**, in September 2019. In 2020, **Sensor Concepts** joined the company, and in 2021 **Testvionics** was added to the Raptor Scientific family. In 2023, **King Nutronics** became the fourth addition to Raptor Scientific.

Raptor Scientific designs, manufactures and delivers high-quality test and measurement equipment that meets the stringent requirements of the aerospace, defense, and commercial markets. We are committed to providing innovative solutions that enable our customers to achieve the highest levels of accuracy, reliability, and efficiency in their testing and measurement processes.

Through our continuous research, development, and collaboration with industry experts, we strive to stay at the forefront of technological advancements, ensuring that our products are always cutting-edge and capable of meeting the evolving needs of our customers. We are dedicated to delivering exceptional customer service, building long-term partnerships, and maintaining the highest standards of integrity and professionalism in all aspects of our business.

Our dedication to being the premier global provider of test and measurement equipment sets us apart and drives us to deliver exceptional results for our clients. We offer an extensive range of test and measurement capabilities, including **Mass Properties, Radar Cross Section Measurement Instruments, Air Data Test Systems, Pressure, Temperature, Torque and Force Measurement Instruments, and Igniter Circuit Testers** for developers of high-performance systems for whom failure is not an option. Our groundbreaking solutions offer the highest level of accuracy, safety, and exceptional product reliability.

As we continue to grow and evolve, we remain focused on staying at the forefront of industry advancements. We invest in cutting-edge technologies, ongoing training,

and continuous improvement to ensure that we deliver the most innovative and effective solutions to our clients.

We are excited about the future and the opportunities that lie ahead. Join us on this journey, and together, we can achieve remarkable things.

Thank you for your continued support and trust in Raptor Scientific. We look forward to serving you and exceeding your expectations.

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## Center of Gravity and Moment of Inertia

### ***Understanding Mass Properties Testing:***

[Mass properties testing](#) is a crucial step in product development and engineering. It involves measuring and analyzing the physical properties of an object, such as its mass, center of gravity, moment of inertia, and more. By measuring these properties, engineers can optimize designs, ensure stability, and improve overall performance.



[Read on for tips and best practices.](#)

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## Air Data Systems

### ***Understanding Air Data Testing:***

[Air data testing](#) involves measuring and analyzing various parameters related to the air surrounding an aircraft, such as airspeed, altitude, angle of attack, and more. Accurate air data is crucial for flight safety, performance optimization, and regulatory compliance.



[Read on for tips and best practices.](#)

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## Calibrators

### ***Understanding Pressure, Temperature, and Torque Testing:***

[Pressure, temperature, and torque testing](#) are essential in various industries to ensure product quality, safety, and compliance with industry standards. These tests involve measuring and analyzing parameters such as pressure levels, temperature variations, and torque or force exerted on objects.



## RF Systems

### **Understanding Radar Cross Section Testing:**

[Radar cross-section testing](#) involves measuring and analyzing the amount of electromagnetic energy reflected by an object when illuminated by radar signals. It is a critical aspect of stealth technology, defense systems, and aerospace applications. RCS testing helps engineers understand and reduce the detectability of objects by radar systems.



[Read on for tips and best practices.](#)

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## Igniter/Squib Circuit Testers

### **Understanding Igniter/Squib Circuit Testers:**

[Igniter/squib circuit testers](#) are specialized tools used to test the functionality and reliability of igniters and squibs, which are critical components in various industries such as aerospace, automotive, and pyrotechnics. These testers ensure that these ignition devices perform as intended, providing a safe and reliable ignition source.



[Read on for tips and best practices.](#)

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## Test Hose Performance Comparison

How much thought do you put into the test hose that you use? When delivering pneumatic or hydraulic pressure into a test circuit is one type of test hose type better than another? Naturally, you'll want to make sure the hose you select is rated for the max working pressure of your system, but what other performance characteristics should you also be concerned about? In this white paper we compare four different types of test hoses for their ability to build pressure, hold pressure over time, and the time to stabilize at target pressures. You might be surprised by the results and even change the way you make your test hose choices for specific applications.

[Click to review this white paper.](#)

... SPECIAL FEATURE

TECHNICAL PAPER

**The Case for Metal Capillary Hoses in High Pressure and Hydraulic Test Circuits**

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