

Tektronix Introduces Compact RF, Microwave Power Sensors/Meters **New Family Offers Industry's Fastest Measurement Speed, Advanced Functionality while Eliminating Need for Zero and Calibration**

BEAVERTON, Ore., Dec. 13, 2011 – Tektronix, Inc., a leading innovator of signal generation and analysis solutions required for the microwave and RF industry, today introduced a family of compact RF and microwave power sensors/meters that feature the industry's fastest measurement speed, cover a wide frequency range, and provide extensive power measurements from basic average power to pulse profiling. The Tektronix PSM RF Power Meter Series come fully calibrated over their entire operating temperature range, eliminating the need for sensor zeroing and meter reference calibration.

The new Tektronix PSM3000, PSM4000, and PSM5000 Series are compact USB power sensors/meters that can be used for a broad range of CW and pulse modulation measurements depending on the model selected. The meters are delivered with Microsoft Windows-based power meter application software for controlling the meter, displaying readings and recording data. This combination provides a complete test solution, eliminating the need for a separate meter mainframe.

“Our new power sensors/meters are a major step forward for applications ranging from installation and maintenance of a wireless base station, production testing, or research and design for wireless devices and radars,” said Mike Flaherty, general manager, Source Analyzer Product Line for Tektronix. “They deliver industry leading accuracy and performance along with a desirable form factor and exceptional temperature stability and breadth of measurements.”

Accurate power measurements have emerged as an absolute requirement in RF and microwave design and manufacturing. While testing of RF products has become faster and easier over the past several years, testing RF power still remains one of the most basic and time consuming tests. This has led to a market need for more capable, compact power sensors/meters such as the PSM Series.

Tektronix PSM Series power sensors feature the industry's fastest measurement speed, rated at 2000 readings per second. This speed can significantly reduce test times and provide dynamic power measurement information that was previously unavailable. A high-speed logging application provides a mechanism for getting this data into a host PC for analysis. The PSM

Series products are highly versatile thanks to a wide dynamic range (–60 dBm to +20 dBm) and frequencies ranging from 10 MHz up to 26.5 GHz.

Zero and calibration are important considerations since these requirements can cost time and add incremental expense, especially in automated test systems, where every second is valuable. The Tektronix PSM sensors employ a patented technique to ensure stability and calibration over the entire temperature range, which makes them more accurate over varying ambient temperatures than any other sensor on the market. Other power sensors require time-consuming disconnecting or zeroing and frequent calibration.

“RF power meters are an important part of system calibration for the active harmonic load-pull solutions we provide,” said Johannes Benedikt, CTO, Mesuro LTD. “By not requiring zero and calibration procedures prior to taking a measurement it saves us time and provides needed confidence that our measurements are accurate and traceable.”

PSM3000 Series RF power meters provide true average power measurements, giving accurate power measurements independent of signal modulation and bandwidth. The PSM4000 Series delivers average

power (CW) measurements, and adds pulse and peak power measurements for gathering basic data on pulsed RF and microwave signals. PSM5000 Series power sensors/meters provide the same measurements as the PSM4000, and add pulse profiling capability for signal viewing and characterization in pulsed RF and microwave systems.

Availability & Pricing

Tektronix PSM Series RF power sensors/meters are available now worldwide and start at \$2,590 US MSRP.

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About Tektronix

For more than sixty years, engineers have turned to Tektronix for test, measurement and monitoring solutions to solve design challenges, improve productivity and dramatically reduce time to market. Tektronix is a leading supplier of test instrumentation for engineers focused on electronic design, manufacturing, and advanced technology development. Headquartered in Beaverton, Oregon, Tektronix serves customers worldwide and offers award-winning service and support. Stay on the leading edge at www.tektronix.com

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