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# Signal Hound Introduces the PN400 Phase Noise & VCO Tester

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**Content**

Ba#le Ground, WA – November 18, 2024 – Today Signal Hound – a leader in versa3le precision test equipment, is pleased to announce the addi3on of the revolu3onary PN400 Phase Noise & VCO Tester to its expanding range of products. This powerful, all-in-one, phase noise test solu3on unlocks enterprise-grade accuracy and cuIng-edge features in your test and measurement environment. U3lizing cross-correla3on methodology and feature-rich soLware, the system provides a level of performance and sensi3vity beyond the capabili3es of a single spectrum analyzer.

**PN400 Features:**

- Phase noise tes3ng and characteriza3on
- VCO tes3ng and characteriza3on
- Produc3on and manufacturing tes3ng
- Source characteriza3on • System level debug
- All the power of Signal Hound's spectrum analysis capabili3es

"This phase noise test solu3on is incredibly versa3le, and it can easily replace larger, more costly dedicated phase noise testers in the lab," said Harrison Osbourn, CEO of Signal Hound. "Phase noise tes3ng is cri3cal across a broad range of industries. Outdated equipment and long lead 3mes for repair of old systems are prohibi3ve factors to efficient test scenarios. The PN400 system performs comparably to similar products and is uniquely flexible due to the u3liza3on of fully-featured spectrum analyzers. It is also compact enough to fit easily on a bench top. This is an exci3ng new tool in the RF space, and it is going to streamline workflows for a wide segment of users."

The introduc3on of a licensed Advanced Phase Noise Test Took Kit via the company's powerful Spike™ spectrum analysis soLware brings a comprehensive suite of tools to this remarkable new product. This tool kit requires a separate purchase with an annual renewal. The soLware delivers a comprehensive suite of tools and industry standard features that make the PN400 a reliable, high-value addi3on to any lab. Configurable automa3on, measurement of phase noise and amplitude noise (or a combina3on of both) and automa3c signal detec3on are just some of the features packed into the PN400. With these capabili3es and more, users can perform precise and reliable phase noise and VCO tes3ng with ease.

The PN400 Phase Noise and VCO tester operates at an input frequency range of 1 MHz to 20 GHz or 43.5 GHz (depending on pairing of SM series spectrum analyzer). It u3lizes two Signal Hound high-frequency spectrum analyzers to perform cross-correla3on measurements. This method achieves phase noise floors 20-30 dB lower than the capabili3es of a single SM series spectrum analyzer. Users must purchase PN400 hardware, the Advanced Phase Noise Test Tool Kit and two (2) SM-

series spectrum analyzers for opera3on. *Mix and match SM200 or SM435 products

With a standard opera3ng temperature range of -40°F to 185°F (-40°C to +85°C), the PN400 weighs 1.2 lbs. (0.55 kg) and measures 7.21” x 3.74” x 1.78” (183mm x 95mm x 45mm). It can be seamlessly integrated into a wide range of test systems.

Visit PN400 Phase Noise & VCO Tester to learn more and add this revolu3onary new product to your toolbox.

**Supporting Links:**

https://signalhound.com/products/pn400-phase-noise-and-vco-test-system/

**Tags:**

Mixed-Signal Design, Networking, Signal Integrity, Signal Processing

**Contacts:**

Contact Type: Managing Director

Name: Clint Burgess

Email: clint@signalhound.com

**About Us:**

**Heading :** About Signal Hound

**Signal Hound** is a manufacturer of accessible, versatile, precision test equipment based in Battle Ground, WA. Starting out as Test Equipment Plus in 1996 and offering used test equipment and repair services, Signal Hound expanded its offerings in 2010 with the introduction of the USB-SA44 USB-powered spectrum analyzer. Signal Hound has since added several award-winning RF spectrum analyzers and signal generators, now sold globally. Visit www.signalhound.com for more information.