

Tektronix Raises the Standard for Isolated Measurements

Tektronix Enhances its IsoVu Portfolio by Offering Products with a Large Differential Voltage Range and High Input Impedance

BEAVERTON, Ore., May 18, 2017 /PRNewswire/ -- Tektronix, a leading worldwide provider of measurement solutions, is extending its leadership in [isolated measurement systems](#). In 2016, Tektronix set a new standard for power measurements by introducing IsoVu, a high performance, isolated measurement system with revolutionary 120 dB (1 Million-to-1) common mode rejection. Tektronix is raising the standard again by adding new products to its IsoVu portfolio with a large differential voltage range and a higher input impedance.

The IsoVu Measurement System was first shown at APEC 2016 and has gone on to win broad acclaim.

"There was a clear need for a new probe technology that would allow us to take direct measurements on the high-side voltages," said Mr. Daijiro Arisawa of Panasonic Semiconductor Solutions. "We needed a way to isolate the common mode voltages from the differential signals we were interested in. With IsoVu, we can now directly observe the gate voltage waveforms without adverse effects on the circuit. This is truly revolutionary."

Efficient Power Conversion Corp. (EPC), a leading provider of GaN-based power management technology, also struggled to make direct measurements on signals when common mode interference was present. "The high bandwidth and high isolation voltage capability of the Tektronix IsoVu Probe is a tremendous tool, aiding in accurate verification of various EPC eGaN FET based high side gate driver power supply designs," said Michael de Rooij, Vice President of Applications Engineering. "The Tektronix team understood the needs and challenges for a new way to measure high performance differential voltages when it designed IsoVu," added David Reusch, Executive Director of Applications. "The ability to measure with the extraordinary performance of this probe is so impressive that EPC has decided to include IsoVu compatible connections on all new development boards such as the EPC9063 and many more. And now with IsoVu's large differential voltage range and high input impedance, this will open up even more measurement capability. "

Large differential voltages, input impedance

Featuring six new models, the IsoVu family portfolio now includes products with both large differential and common mode voltage ranges. Users can now accurately measure a wide range of differential signals (5 mV to > 1,000 V) from DC to 800 MHz in the presence of large common mode voltages up to 60 kV.

The new IsoVu products also include high input impedance. The differential input resistance is up to 40 M Ω and the differential input capacitance can be as low as 2 pF. A large input impedance allows users to make measurements anywhere in their circuit without concerns about loading the signal under test. The combination of large differential voltage and high input impedance allows designers to completely characterize their systems and eliminates the need for conventional probes tied back to ground through the scope.

New IsoVu models with these capabilities are available with 200 MHz, 500 MHz, 800 MHz bandwidths with either 3-meter or 10-meter fiber optic cable lengths. The 10-meter cable option offers the same performance specifications as the 3-meter option and allow users to move their test system away from the interference and radiated emissions of the device under test. The previous 1 GHz model continues to be available.

Availability

The updated IsoVu models will be available for order and will start shipping in late Q3.

Wondering what else Tektronix is up to? Check out the Tektronix [Bandwidth Banter blog](#) and stay up to date on the latest news from Tektronix on [Twitter](#) and [Facebook](#).

About Tektronix

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For further information: Amy Higgins, Worldwide PR & Brand Manager, Tektronix, amy.l.higgins@tektronix.com, 503.627.6497

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