News Release

Wide-band screened current probes from PEM boost accuracy in harsh electrical environments

*Screening maximises dV/dt immunity without bulk or bandwidth limitation*

*November 2014*  New wide-band screened CWT MiniHF Rogowski current probes from Power Electronic Measurements Ltd (PEM) feature an innovative electrostatic screening strategy that enhances performance and accuracy in the presence of large electrostatic interference signals.

Combining a novel shielding technique, utilising a low sensitivity coil and patented low-noise signal-conditioning circuitry, the wide-band screened CWT MiniHF probes boost immunity to local dV/dt transients while maintaining small size, flexibility, and 3dB bandwidth of up to
30MHz for a 100mm coil. The probes feature a coil only 4.5mm thick with 5kV insulation voltage, and can handle maximum current slope of 100kA/µs.

Engineers increasingly need the enhanced-accuracy of a screened probe for measuring complex current waveforms in equipment such as UPS circuits, switched-mode power supplies and Variable-Speed Drive (VSD) inverters where high power density leads to high field strengths, or where the high speeds and high blocking voltages of silicon-carbide (SiC) devices call for higher probe bandwidth and better common-mode immunity.

PEM’s new wide-band screened CWT MiniHF probe eliminate the extra bulk and bandwidth restrictions imposed by conventional screening techniques, while delivering the known advantages of a Rogowski coil. These include zero insertion impedance, freedom from flying leads, isolated measurement, high peak-current rating, and the ability to measure small AC currents in the presence of large DC current.

Further information can be found at [www.pemuk.com/cwtminihf](http://www.pemuk.com/cwtminihf)

About PEM
Power Electronic Measurements Ltd (PEM) is an established market leader in the design and manufacture of wide-bandwidth current measuring devices based on Rogowski technology.

Founded in 1991, PEM has pioneered the general purpose wide-band Rogowski Transducer and continues to provide state-of-the-art Rogowski transducers across a broad range of applications and industries, providing advice and support to engineers with current measurement challenges.

The company exports to over 35 countries worldwide and counts many of the world’s leading engineering companies and research institutions as its customers. Offering a number of standard product ranges to meet a wide variety of customers’ requirements, PEM also provides custom solutions, from one off designs to volume OEM products.

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