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NEWS RELEASE

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FEMTO Ultra Low Noise Current Amplifiers

FEMTO offers the ultra low noise current (transimpedance) amplifiers DDPCA-300 (variable gain) and LCA-2-10T for very sensitive current and charge measurements. The DDPCA-300 has a switchable gain from 10^4 to 10^{13} V/A. The LCA-2-10T has a switchable high gain of 10^{12} and 10^{13} V/A. Both have an extremely low noise input (DDPCA-300 - 0.4 fA/√Hz; LCA-2-10T – 0.18 fA/√Hz) minimum allowing measurement of currents in the femtoampere to picoampere range. Rise and settling times for AC measurement are in the millisecond range. The DDPCA-300 features include adjustable voltage directly on amplifier input for DUT biasing, DC optimized design with high stability and very low drift and manual control and remote interface. Both come in a miniaturized and rugged aluminum EMI shielding housing. The small size lets you get the amplifier close to the detector, minimizing noise from long detector leads.

The DDPCA-300 and the LCA-2-10T are the ideal tools for amplification of small currents close to DC generated by high impedance sources, such as photodiodes, PMTs, ionization and particle detectors. Typical applications include spectroscopy, photodiode amplification, sensitive ionization and charge detector amplification, conductive atomic force microscopy (cAFM), characterization of MOS and JFET structures, quantum and biotech experiments, and pre-amplification for oscilloscopes, A/D converters and digital voltmeters.

FEMTO manufactures a line of high quality specialty amplifiers for signal recovery and processing. These products include Low Noise Current Amplifiers, High and Low Frequency Voltage Amplifiers, Photoreceivers, High Speed GHz Amplifiers and Lock-In Amplifiers.

FEMTO's signal recovery amplifier products are distributed in North America by:

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