



**World Energy Engineering Congress (WEEC)
New Product Overview for Continental Control Systems
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About Continental Control Systems

Founded in 1995, Colorado-based Continental Control Systems specializes in electric power metering and inverter monitoring equipment. The company's meters and current transformers are designed to provide revenue-grade electrical measurements including power (kW) and energy (kWh) through a variety of communication protocols including BACnet[®], Modbus[®], and LonWorks[®] or as pulse outputs. Applications for the *WattNode*[®] meter and Accu-CT[®] current transformers include measurement and verification of energy production, energy and power consumption measurement for building automation and energy shed, tenant sub metering, and net metering.

All Continental Control Systems products are listed or recognized by Underwriters Laboratories Inc. for use in both the United States and Canada.

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Company Quote:

"Across the commercial, industrial, and government markets, both the drive for energy efficiency and alternative energy production require precise, revenue-grade metering solutions. We are excited to once again be joining energy professionals from around the world at WEEC, where we will highlight a number of products to meet this need — at a low price point for increased ROI. At the event, our product line-up will include our entire *WattNode* line of power and energy meters, including the ANSI C12.1-2008-certified *WattNode Revenue Modbus* for revenue

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metering applications. In addition, we will be showcasing our full line of high-accuracy current transformers and will debut our CTRC Series of Rogowski coils.”

— **Cynthia A. Boyd, Director of Sales at Continental Control Systems**

Continental Control Systems Products at WEEC 2013

***WattNode*[®] Electric Power Meters — Now Offering ANSI C12.1-2008 Certification**

At WEEC 2013, Continental Control Systems will showcase its entire line of *WattNode*[®] electric power meters, including the revenue-grade *WattNode Revenue*. The *WattNode Revenue* meters meet the accuracy requirements of ANSI C12.1, and support Modbus[®], BACnet[®], or LonTalk[®] communications protocol or a pulse output.

Recently, the *WattNode Revenue Modbus* became the first meter in the Revenue line to be certified to the requirements of the American National Standard for Electric Meters – Code for Electricity Metering: ANSI C12.1-2008. The ANSI C12.1 standard establishes acceptable performance criteria and in-service performance levels for meters used in revenue metering, and is often referenced by government and regulatory bodies when approving meters for use within their jurisdiction.

All *WattNode* energy meters provide line-powered single- and three-phase, wye, or delta configurations up to 600 Vac and loads to 6000 Amps. The newest member of the family, the *WattNode BACnet* meter, supports full self-discovery of the meter and all of its objects, offering more than 50 electric power-related measurements, 64 addresses, and selectable baud rates up to 76.8K. The unit has received BACnet Testing Laboratory (BTL) certification.

Photo Link: www.redpinesgroup.com/CCS/RevenueModbus.zip

Photo Caption: Continental Control Systems *WattNode*[®] *Revenue Modbus*

Photo Link: www.redpinesgroup.com/CCS/BACnetImage.zip

Photo Caption: Continental Control Systems *WattNode*[®] *BACnet*[®] Meter

New CTRC Rogowski Coil Current Transformer

Continental Control Systems will debut the new CTRC Rogowski coil current transformer at WEEC 2013, which greatly simplifies installations to meet the increasing demand for accurate current measurement on conductors where traditional split-core and solid-core current transformers (CTs) are difficult to use. With its flexible design, the CTRC is perfect for large bus bars and irregular-shaped conductor bundles. The new coil offers a small flexible profile which will also allow it to be used on conductors in tight spaces where rigid CTs won't fit.

Available for single- and three-phase services, the output of the CTRC's flexible coil is connected to a conditioning circuit, where it is converted to a low-voltage 333.33 mVac signal compatible with any *WattNode*[®] meter for accurate energy (kWh) and power (kW) production and consumption measurements. The UL-recognized CTRC provides accuracy of ± 1.0 percent from 5 percent to 120 percent of rated current for loads up to 6000 Amps. The Rogowski coil is offered in four standard diameters from 3.1" round (loads to 100 Amps) to 12" round (loads to 6000 Amps). Non-standard configurations are available upon request.

Photo Link: www.redpinesgroup.com/CCS/CTRC.zip

Photo Caption: CTRC Rogowski Coil Current Transformer

CTL Series Revenue-Grade, Split-Core Current Transformers

At WEEC 2013, Continental Control Systems will display its CTL Series of revenue-grade, split-core current transformers (CTs). These provide IEEE C57.13 Class 0. revenue-grade

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accuracies together with a UL listing for energy management equipment. The result is CTs for use on loads to 400 Amps that combine the ease of installation of an opening CT with the accuracy normally associated with solid-core CTs. With their 333.33 mVac output, they are an ideal companion to the *WattNode*[®] *Revenue* meter for revenue-grade electric power metering applications compliant with ANSI C12.1.

Photo Link: www.redpinesgroup.com/CCS/CTLSeries.zip

Photo Caption: Continental Control Systems CTL Series Revenue-Grade, Split-Core Current Transformers