

Current Transformers for Revenue Billing Applications



Contact Information:

Standex-Meder Electronics

Headquarter
4538 Camberwell Road
Cincinnati, OH 45209 USA

Standex Americas (OH)

+1.866.STANDEX
(+1.866.782.6339)
info@standexelectronics.com

Meder Americas (MA)

+1.800.870.5385
salesusa@standexmeder.com

Standex-Meder Asia (Shanghai)

+86.21.37820625
salesasia@meder.com

Standex-Meder Europe

(Germany)
+49.7731.8399.0
info@standexmeder.com

Allows "Smart Metering" and "Time-of-Use" Billing

Electricity usage continues to climb. Faced with the expensive option of adding capacity, municipalities and utilities are increasingly opting to monitor the time of use and invoice those customers that are driving the need for increased capacity with higher rates - thereby altering demand. Highly accurate Standex-Meder Current Transformers play a key role in this "smart metering" process.

Electric currents in the circuit are too high to be applied directly to measuring instruments. Current in the monitored circuit produces a reduced but proportional current in the Standex-Meder Current Transformer which is then monitored by measuring instrumentation.

Effective for both residential and commercial environments, "Time-of-Use" or "Smart Meter" monitoring is easy to install in new or existing facilities and have minimal size/space requirements. Multi-tenant properties can bill tenants for individually measured electricity usage through the use of multiple CTs and a single measuring instrument.

Standex-Meder current transformers offer many benefits, including:

- Easy installation - in new construction or retrofits
- Ideal for multi-tenant environments
- Minimal size/space requirements
- Suitable for use with "Socket Meters" or "Closet Meters"
- CTs provide isolation of the instrumentation from the monitored circuit
- Accuracy of 0.30% is standard
- Designed for primary current of 200A and secondary current of 5A – other primary and secondary currents available upon request
- CTs designed for use with a specific burden

Current transformers for revenue billing purposes are designed for use with standard burdens for different secondary rated currents:

- 5A > B-0.1/B-0.2/B-0.5/B-0.9/B-1.8/B-1.0 & B-2.0
- 80mA > B-0.005/B-0.01/B-0.03 & B-0.05
- 100mA > B-0.005/B-0.01/B-0.03 & B-0.05
- Recognized by appropriate agencies worldwide, including Measurement Canada

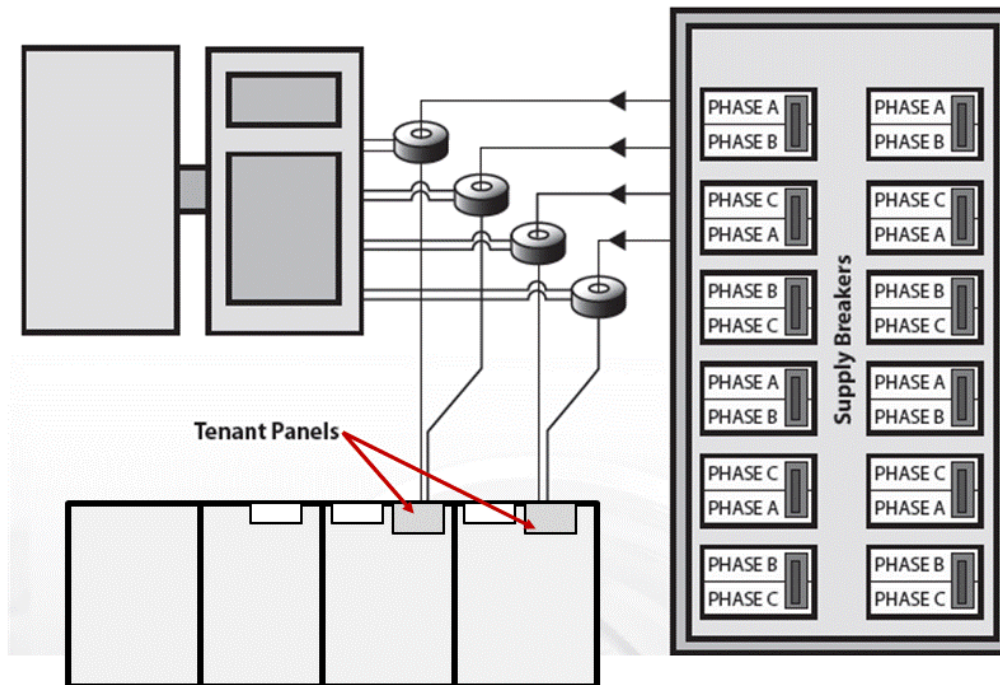


Highly accurate Standex-Meder Current Transformers are well suited for smart metering applications.

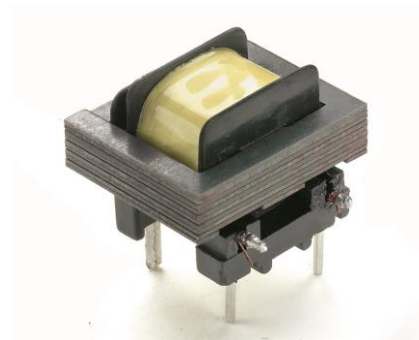
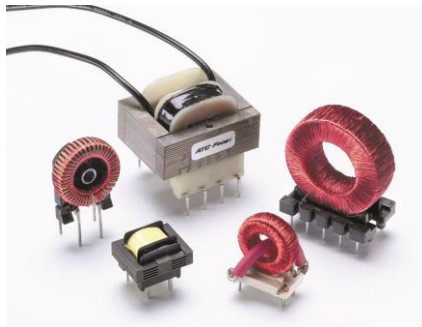
With their small size, Standex-Meder Current Transformers are easy to install in closet meters, whether in new construction or in retrofit applications. They are especially suited for multi-tenant commercial environments like strip malls or shopping centers, and multi-unit residential housing – apartments, condominiums, and more.

Our engineers routinely work with customers to develop custom solutions to their challenging projects. If you desire an accuracy or primary/secondary amperage that differs from that which is shown, please contact your Standex-Meder representative.

Their small size and long lead wires simplify installation of Standex-Meder Current Transformers. They are ideal for commercial and residential multi-tenant environments. This diagram shows a typical closet meter installation.



Standex-Meder manufactures many standard and custom current transformers, including these models. Contact our engineering staff with your project requirements to see whether we have a standard model with similar capacities – or whether we can tailor a solution for your needs.



This PC mount current transformer is a low-cost solution – it is used in a frozen drink machine to ensure proper consistency of finished product. Rather than measure temperature of processed drink mixture, Standex-Meder engineers suggested measuring current draw – providing a more consistent end product.