

## I-210+ Equipped with DCSI's UMT-R Endpoint

# fact sheet

GE Energy's I-210+ with integrated DCSI UMT-R (Universal Meter Transponder—Residential) provides remote two-way access to consumption and voltage data contained in the meter through the TWACS® fixed network power line communication system. This combined solution brings significant value to the marketplace.

### Efficiency, Reliability, and Accuracy

The I-210+ singlephase meter is an electronic watthour meter that measures energy consumption in single phase services, delivering outstanding operational efficiency and reliable measurement. With its innovative, simplified sensor design and mechanical construction, it provides high quality, solid-state measurement performance, accuracy, and reliability—and dramatically reduces lifetime meter ownership costs. It meets or exceeds GE's operation standards, at temperatures from -40°C through +85°C. And it's available in all popular meter forms for residential or commercial singlephase services. The UMT-R is available as a factory integrated module. The endpoint is fully contained under the meter's cover and is designed to read the meter registers directly. This enables retrieval of measurements computed by GE's metrology circuits and algorithms, critical values that are used for generating customer bills, thereby avoiding potential discrepancies between billing values displayed at the endpoint and those that might be derived externally utilizing pulse outputs or any other method "external" to the metering endpoint. This allows for much more efficient and robust data collection compared to pulse based reads.

DCSI's UMT-R endpoint provides internal AMR capability to GE's I-210+ solid state residential meter. The I-210+ equipped with the UMT-R is a direct register-read solution which allows the utility to access the full featureset of the I-210+ meter—including the meter's registers that record local line voltage. Data contained in the meter's ANSI tables is accessible through the TWACS

Network. The UMT-R also performs Interval Data Retrieval (IDR). IDR data is calculated from readings received hourly from the I-210+, and is stored within the transponder's memory.

### More About the I-210+

The I-210+, GE Energy's latest singlephase basic energy meter, is designed to offer utilities high quality, solid-state measurement performance, affordability, accuracy and reliability. The I-210+ measures energy, and with the addition of a softswitch, is compatible with a suite of third-party AMR solutions. The I-210+ comes with the option of an integrated, factory installed remote disconnect switch to help utilities more efficiently address issues such as non-payments and move-in, move-outs. The meter is also offered in network forms (I-210+n) allowing utilities to more cost-effectively meter network services.

- Low starting watts which capture energy consumption at levels typically not registered by electromechanical meters.
- Low burden which minimizes utility system losses.
- Patented tamper algorithm to detect tamper-by-meter inversion (turning the meter upside down)
- Large, easy to read LCD display.
- Operation over a broad temperature range (-40°C through +85°C).
- Voltage:  $\pm 20\%$
- Typical starting watts:  $\leq 5.0$  watts (Form 2S 240 V CL200)
- Typical watts Loss: 0.7 watts
- Typical accuracy: within  $\pm 0.2\%$
- Performance meets or exceeds ANSI C12.1, C12.10, C12.20, C37.90.1



## About DCSI's UMT-R

- Interval Data Recording - The UMT-R performs Interval Data Retrieval (IDR) and does not require mass memory in the meter.
- The I-210+ with integrated UMT-R can participate in IDR under the TWACS system management software, enabling real-time pricing, direct-access settlement, aggregated billing and other related features.
- PROASYS™ - Because the I-210+ with UMT-R can directly read line voltage from the meter, it serves as a powerful PROASYS™ support tool and assists in your system maintenance program.
- The UMT-R reads the meter each minute, ensuring the most recent data is available.
- The UMT-R performs scheduled and on-request reads by retrieving data directly from the meter, using the power of the system's two-way addressing features.
- Control actions, such as remotely resetting the peak demand, can be performed on an individual meter.

## I-210+ with UMT-R Available Forms

Form	Class	Volts
1S	100	120 & 240
2S	200 & 320	240
3S & 3CS	20	120 & 240
4S	20	240
12S	200 & 320	120 & 240
25S	200 & 320	120 & 240

### Notes:

Please consult the GE factory for applicable catalog numbers.

DCSI's UMT-R endpoint part numbers may vary based on voltage required.

