GE Energy

I-210* Meter Equipped with DCSI's EMT-3G Transponder

fact sheet

As utilities strive to increase the level of service they provide to their customers while maximizing their own profitability, the importance of an automatic meter reading solution becomes clear. Through a joint development effort with DCSI, GE Energy now offers its I-210 meter equipped with DCSI's powerful electronic metering transponder (EMT-3G). This is an economical under-glass solution for singlephase applications that features the TWACS® two-way, fixed network power line AMR communications.

This solution encompasses the key attributes of the I-210 meter and the benefits delivered by DCSI's TWACS power line communication automatic meter reading solution.

Benefits of the meter include:

- Ease of installation – the EMT-3G can be installed in the I-210 meter at the GE factory, programmed in the meter shop or field, and simply inserted into the meter socket.
- Flexibility – the robust plug-n-play design of this offering allows for quick and easy retrofits to compatible I-210 meters.
- Cost effective.
- All I-210 Meter functionality (including display features), is maintained.
- Proven product reliability.

The EMT-3G is designed to provide internal AMR capability to GE Energy's I-210 singlephase electronic residential meter. It is installed under the glass as a personality module to the I-210 meter and monitors power consumption using a pulse-initiator output signal from the I-210 meter. Data retrieval can be performed on either a scheduled or on request basis. On request reads can be completed in 20 seconds. The EMT-3G also provides remote access to all necessary electrical measurements including total and accurate consumption data, load profiling, peak demand and hourly interval data. Remote disconnect and connect functionality is available by the use of the TWACS Disconnect Switch Interbase (DSI), aiding revenue collection, enabling cost-savings with transitional customers (students) and offering a convenience for seasonal customers.

The robust plug-n-play design of this offering allows access to the EMT-3G programming port via a programming connector while maintaining access to the I-210 configuration port.

This solution provides all I-210 meter functionality, including the meter's powerful display features. When incorporated into the I-210, the EMT-3G provides several additional features such as interval data retrieval (IDR) and remote line voltage monitoring. The EMT-3G calculates 15-minute peak demand for real power and can help utilities employ critical peak pricing, direct-access settlement, and aggregated billing. The module can also assist in proactive outage and restoration functions using the TWACS Outage Assessment System (OASys™).

The I-210 equipped with DCSI's EMT provides a modular AMR solution that is capable of providing the customer with a cost effective, residential solution.

fact sheet

About the I-210 meter

The I-210 Singlephase Meter is an electronic watthour meter designed for measuring energy consumption in singlephase services. This meter delivers high quality, solid-state measurement performance, affordability, accuracy and reliability through its innovative sensor design and mechanical construction. It features:

- Low starting watts which capture energy consumption at levels typically not registered by electromechanical meters.
- Low burden which minimizes utility system losses.
- Tamper-resistant design to minimize theft-of service. The module is capable of recording reverse energy in a separate register.
- Large, easy to read LCD display.
- Operation over a broad temperature range (-40°C through +85°C).
- Performance that meets or exceeds industry standards (ANSI® C12.1, C12.10, C12.20, C37.90.1).

As the cost of energy continues to rise, utilities require more precise and accurate measurement techniques. The I-210 meter provides the measurement tool to deliver equitable customer billing and dependable maintenance-free operation over its operating life.

About DCSI's EMT-3G Transponders

- Compatible with TWACS® two-way, fixed network power line carrier AMR communications.
- Remote disconnect and connect functionality available through use of DCSI's Disconnect Switch Interbase (DSI).
- No loss of data during power outages with storage capability for 24 hour intervals.
- Supports momentary outage counts, outage detection, and restoration using the new OASys software package.
- Provides remote line voltage monitoring and 15 minute peak demand.

I-210 Equipped with DCSI's EMT-3G Catalog Numbers

Circuit-Type	Meter Class	Volts	Test Amps	Watthour Constant (kt)	Meter Form Number	LCD Display Presentation	Catalog # w/ poly-carbonate cover
2-Wire	20	120	2.5	0.05	3S	5x1-digit	726X330001
2-Wire	20	120	2.5	0.05	3S	4x10-digit	726X330002
2-Wire	20	240	2.5	0.1	3S	5x1-digit	726X330003
2-Wire	20	240	2.5	0.1	3S	4x10-digit	726X330004
3-Wire	20	240	2.5	0.1	4S	5x1-digit	726X430001
3-Wire	20	240	2.5	0.1	4S	4x10-digit	726X430002
2-Wire	100	120	15	0.25	1S	5x1-digit	726X130001
2-Wire	100	120	15	0.25	1S	4x10-digit	726X130002
2-Wire	100	240	15	0.5	1S	5x1-digit	726X130003
2-Wire	100	240	15	0.5	1S	4x10-digit	726X130004
3-Wire	200	240	30	1.0	2S	5x1-digit	726X230001
3-Wire	320	240	50	2.0	2S	5x1-digit	726X530001

Note 1: Catalog number includes display of kWh quantity ("delivered – received" energy accumulation). Optionally, the meter may be factory programmed to include display of "instantaneous power" by ordering similar to catalog number from list (i.e. 726X230001)...except with "instantaneous power" display.

To obtain more information or to purchase GE Energy's metering products, please call GE 1-STOP at 1-800-431-7867. Product information is also available on our web site. Visit us at gepower.com.

GEA-14025 (05/05)