

kV2c* Meter Equipped with Hunt Technologies' TS1 DRR Endpoint Transmitter

fact sheet

Automatic meter reading solutions are becoming key strategic components for utilities as they work to provide increasing levels of service to their customers. Through a joint development effort with Hunt Technologies, GE Energy now offers its kV2c* meter equipped with Hunt Technologies' TS1 DRR power line carrier AMR capability. This is an under the cover, direct register read solution that is available as a factory installed option on new kV2c meters.

This offering encompasses the key attributes of the GE Energy kV2c meter and the benefits delivered by Hunt Technologies' TS1 DRR automatic meter reading solution.

The values this solution brings to the marketplace include:

- Ease of programming – an optical serial port option allows programming from outside the meter base
- Flexibility – because of the direct register read technology, the module can be configured to transmit values calculated by the meter, that are important to the utility customer
- Reliability – no loss of data during power outages
- Self contained, under cover 480 V solution – no need for external potential transformers
- Perfect for hard-to-read or remote applications

The endpoint transmitter is an option board that replaces the telephone modem, and occupies the modem card slot in the meter. The kV2c meter performs all metrology calculations. The endpoint transmitter reads the resulting parameters directly from the internal meter register and transmits the requested values to a database. By using Hunt Technologies' TS1 DRR power line carrier technology, utilities can take advantage of the flexibility that the kV2c meter offers, without having to invest in an additional communication infrastructure.

The Hunt Technologies TS1 DRR endpoint transmitter monitors power consumption by reading the meter energy registers, using direct register read techniques. In addition to the usage and demand data, the endpoint transmitter also reads the IEEE reliability indices and cycle insensitive demand data maintained by the meter. This allows the utility to directly measure and monitor quality of service provided to the customer. This transmitter is designed to fully support the K, T, and E softswitches for the kV2c. The offering features the most popular meter forms as well as compatibility with all metering voltages from 120 V to 480 V phase to phase. A significant application for this endpoint is in providing AMR services to irrigation wells and oilfield pumps, which are located significant distances from the utility office and oftentimes do not have alternative communication technologies available.

The TS1 DRR GE Polyphase Endpoint represents a significant advance in servicing for utilities. They will be able to offer their commercial and industrial customers a solution for difficult-to-read remote meters, including 480 V applications.

About the kV2c meter:

GE Energy's kV2c meter moves beyond revenue metering to real-time instrumentation, true power quality monitoring and real cost of service measurements. It provides you with:

- Revenue accuracy (with DC detection capability)
- Installation verification and tamper detection tools
- Coincident demand measures
- Power quality monitoring and analysis
- 20 channel recording
- Totalization options (with 4 external inputs)



- 4-Quadrant industrial or substation measures
- Per phase AC instrumentation (amps, volts and frequency)

Whether you're metering the simplest energy rate or collecting critical quality of service and load analysis information (on a polyphase or a single phase circuit), there is a kv2c meter configuration to meet your needs.

About the Hunt Technologies TS1 DRR kv2c Endpoint Transmitter

- Utilizes TS1 DRR ultra narrow bandwidth power line carrier communication technology
- Provides access to numerous registers within the meter including kWh, kW, kVAR, kVARh, kVA, TOU, Reliability Indices, and Quality of Service Diagnostic registers. The user is able to customize the transmission of data from the meter to match their rate tariffs as well as proactively monitor power quality.
- No loss of data during power outages
- Outage detection and restoration notification
- Daily usage data
- This module is available for use with Command Center version 2.3 and above

kv2c Equipped with Hunt TS1 DRR Endpoint Transmitter Catalog Numbers

(Basic Meter, No Option Board, No Optical Port, No Switches)

Self Contained

Circuit	Wires	Form	Elements	Class	Catalog #	Voltage
1 ϕ	3	2S	1	200	787X260100	240 V
3 ϕ Network	3	12S	2	200	787X160101	120 V
3 ϕ Network	3	12S	2	200	787X160100	240 V
3 ϕ Δ	3	12S	2	200	787X160102	480 V
3 ϕ Y / Δ	4	16S	3	200	787X460100	240 V
3 ϕ Y / Δ	4	16S	3	200	787X460101	120 V

Transformer Rated

Circuit	Wires	Form	Elements	Class	Catalog #	Voltage
1 ϕ	2	3S	1	20	787X360100	240 V
1 ϕ	2	3S	1	20	787X360101	120 V
1 ϕ	3	4S	1	20	787X360102	240 V
3 ϕ Y / Δ	3,4,5	45S	2	20	787X560101	120 V
3 ϕ Y / Δ	3,4,5	45S	2	20	787X560100	240 V
3 ϕ Y / Δ	3,4,5	45S	2	20	787X560102	480 V
3 ϕ Y / Δ	4	9S	3	20	787X960101	120 V
3 ϕ Y / Δ	4	9S	3	20	787X960100	240 V

Note: 480 V catalog numbers will be available in second half, 2006.

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 www.ge.com/energy

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