

kV2c*+ Meter Equipped with Trilliant Networks CellReader™ Communications Module

Cellular Communications on CDMA Networks

GE Energy's kV2c+ meter with an integrated CellReader Communications Module from Trilliant Networks uses digital cellular technology to make all meter information available any time, anywhere. This solution is ideal for commercial and industrial meter applications that need an upgrade path from analog cellular and telephone line solutions to a digital cellular solution. This solution is also well suited for hard-to-read, load research, power quality applications, and demand response applications.

The kV2c+ with CellReader Communications Module uses digital cellular technology to provide public radio frequency (RF) communications coupled with the best available and most cost effective wireless coverage in the US and Canada. It features both scheduled reads and on-demand reads via a wireless two-way communications network and has both packet data transmission capabilities (faster and more reliable than traditional transmission modes) as well as circuit-switched data communications (traditional dial-up modem). The CellReader module can operate on any public CDMA network, such as Verizon Wireless, Bell Mobility, Telus Mobility, and Sprint PCS. Packet data mode works on the latest generation of CDMA technology known as 1xRTT or CDMA2000.

This solution brings significant value to the marketplace:

- **Convenient.** The Trilliant Networks CellReader Communications Module is mounted under the cover of the kV2c+ meter—no external wiring or installation is required. This solution is available equipped from the GE factory.
- **Efficient.** This solution supports industry standard MV-90 communications.

- **Accurate.** Because of the direct register read technology employed in this solution, the meter performs all of the metrology calculations and they are read and transmitted via the CellReader module. This provides an accurate, cost effective way to read and analyze important information such as consumption, load profile, and diagnostic data.
- **State-of-the-Art.** This solution saves time and money through the elimination of phone line connections, ease of installation and lower monthly operating costs.

About the kV2c+ Meter

The GE kV2c+ meter moves beyond revenue metering to real time instrumentation, true power quality monitoring and real cost of service measurements. It provides all of the features available on the kV2c meter, such as:

- 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 four external inputs)
- Four-Quadrant Industrial or Substation Measures
- Per Phase AC Instrumentation (amps, volts, and frequency)

In addition, the kV2c+ offers a robust power supply option for solutions with higher power requirements, a low voltage service option (operates on 57 - 120 volts), support for GE's Revenue Guard option board, enabling meter operation from any available phase voltage and additional load profile recording capability. Specific options include a Revenue Guard board or a High Voltage board, Load Profile Memory (8 MB available via a softswitch), and Revenue Guard Plus (available via a softswitch).

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 GE kV2c+ meter configuration to meet your needs.



Trilliant Networks CellReader Module Specifications

Supply

- Uses meter's internal power supply

Communications

- CDMA/1xRTT
 - Circuit-switched data mode
 - Data rate: up to 14.4 kbps
 - Packet-switched data mode
 - Data rate: up to 153 kbps
- Reception sensitivity: -104 dBm
- Security: AES encryption

Environmental

- Operating temperature: -30°C to +70°C
- Humidity range: 0 - 95% (non-condensing)
- Storage: -40°C to +70°C

Additional features

- Total meter data accessibility
- Data traffic reduction and optimization
- ANSI® C12.19 compliant
- Retrofittable external antenna
- Retrofittable CellReader Module
- Supports both static and dynamic IP
- Direct MV-90 communications
- Direct MeterMate connectivity
- Downloadable CellReader Firmware

(Note: for a complete list of specifications, please visit Trilliant Networks at www.trilliantnetworks.com)

KV2c+ Equipped with Trilliant Networks CellReader Module Forms

Note: All available meter forms are autoranging (120 – 480 VAC)
All forms can be ordered with an internal or external antenna

| Form | Class |
|------|-------|
| 1S | 100 |
| 2S | 200 |
| 2S | 320 |
| 3S | 20 |
| 4S | 20 |
| 9S | 20 |
| 12S | 200 |
| 12S | 320 |
| 16S | 200 |
| 16S | 320 |
| 36S | 20 |
| 45S | 20 |



www.ge-energy.com

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