PRODUCT DATA SHEET

Nexgrid® Technology Solutions

intelaMeter™ Electric

General Electric kV2c+ electric meter with NIC

Nexgrid's GE kV2c+ poly-phase meter with an integrated under the glass ZigBee Network Interface Card (NIC). The integrated NIC provides wireless MESH networking capability to communicate with Nexgrid's ecoNet™ Gateway. The intelaMeter NIC includes an open, standards-based platform that supports two-way, real-time communication between the Utility and its customers. Additionally, the intelaMeter acts as a communication repeater for additional services such as Demand Side Management (DSM) and Smart Home command and control products. The intelaMeter provides Utilities with advanced metering, outage notification, restoration detection, tamper and demand response. Using Nexgrid's web based intelaHome® portal, consumers can access real-time information regarding their energy usage and history from a computer, mobile phone or ecoStat™ in-home display.

The GE kV2c+ meter is one of the most widely accepted commercial and industrial meters. The robust revenue-grade meter design is based on GE's cutting edge technology that provides high accuracy and reliability.

KEY FEATURES

- Standards-based communication IEE 802.15.4 ZigBee protocol
- Non-volatile memory storage
- Tamper Sensing
- Instant on-demand reading
- Over-the-air (OTA) enabled firmware update support
- Voltage measuring
- Demand Information
- Acquires time stamped interval metering data
- Full Two-way communication

Technical Specifications

Nexgrid Part Number	intelaMeter GE kV2c+
Interface	ZigBee Wireless (IEEE 802.15.4 compliant)
Input Power	57 – 600 V 50/60 Hz
Signal Rate	250 kbps
Power Consumption	0.8 Watts/ 7.9 VA @ 240VAC
Mechanical Dimensions	5.5" W x 3.75" H x 1.1"D
Weight	.22 Kg
EMC Standard Compliance	EN61000-4-4: 1995
Safety Standard Compliance	EN61000-4-5:1995 Category IV
Temperature	-40 C to +85 C
Humidity	0% - 95%
Accuracy	Exceeds ANSI C12.20 Class 0.2
Complies with Standards	FCC Part 15, ANSI C12.1—2001, ANSI C12.10 –1997, ANSI C12.16; ANSI C12.18; ANSI C12.19; ANSI C12.20; ANSI C12.21; FCC Class B emissions (Class A for 600v)
Encryption	Standard AES /DES Capable
Frequency	2.4 GHz to 2.48 GHz, 16-MHz channels
RX Sensitivity	-95 dBm nominal
TX Power	-32 dBm to +20 dBm (100mW)

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