PRODUCT DATA SHEET

Nexgrid® Technology Solutions

intelaMeter™ Electric

General Electric I-210+ electric meter with NIC

Nexgrid's GE I-210+ single-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, 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 I-210+ meter is a highly adopted solid state electric meter that provides unparalleled digital accuracy, reliability, and cost effectiveness. Engineered for a wide range of needs in the residential market, the I-210+ provides multiple application options to meet current and future requirements. The I-210+ is a solid state single phase electric meter designed for the evolving requirements of the Utility industry.

KEY FEATURES

- Standards-based communication IEE 802.15.4 ZigBee protocol
- Non-volatile memory storage
- Secure DES support
- 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 I-210+
Interface	ZigBee Wireless (IEEE 802.15.4 compliant)
Input Power	120 – 240 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 0.5 accuracy class
Complies with Standards	FCC Part 15, ANSI C12.1—2001, ANSI C12.10 –1997, ANSI C37.90.1—1989
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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