HONEYWELL
NEXT GEN GATEKEEPER

Unparalleled flexibility, and multiple deployment options coupled with a choice of meter or non-meter platforms, make the Honeywell Next Gen Gatekeeper the best option in advanced smart grid and smart meter communications for utilities. The device is the intelligent interface between the head-end (Connexo NetSense) and the local area network (Energy Axis LAN) which may include electric, water, and gas endpoints, as well as smart grid sensing and control devices.

The Gatekeeper communications module provides network security, storage for network element data, management of the local area network, and multiple options for communication interfaces to wide area networks (WAN). In addition, distributed intelligence enables the gatekeeper to enhance network performance by setting and managing message priorities as well as filtering redundant and low priority messages.

The Next Gen Gatekeeper delivers intelligent and highly effective management of the local area network while giving the utility extensive tools to support value-added services.

Unlike other systems that offer only one type of collector or concentrator, EnergyAxis offers the choice of metering or non-metering Gatekeepers along with an extensive range of powering and WAN connectivity options. Next Gen Gatekeepers are designed for easy mounting at a variety of locations such as a meter box, transformer, pole, tower, or building.

Gatekeepers are designed for single or multi-service deployments and can be used in gas or water only service areas as well as electricity and combined electricity, water, and/or gas service areas. For electricity service areas, electric Next Gen Metering Gatekeepers using A4 meters equipped with the Gatekeeper module offer a convenient method of building a mesh network with deployment being as simple as installing a meter. Utilities can select the Next Gen Gatekeeper style and options that meet the architecture, EA_LAN2 mesh protocol.

Honeywell Next Gen Non Metering Gatekeeper

Honeywell Next Gen Metering Gatekeeper

With an open network architecture and using a wide range of public and private communications networks, the Honeywell Next Gen Gatekeeper is an ideal mesh network solution for commercial, industrial, and residential smart metering, as well as smart grid management.

FEATURES AND BENEFITS

The Honeywell Next Gen Gatekeeper is available on two platforms:
- An A4 electricity meter with the Next Gen Gatekeeper module in the meter chassis
- A Next Gen Gatekeeper in a ruggedized NEMA enclosure

To provide greater network design flexibility, the Next Gen Gatekeeper is also available with a variety of power options and meter forms:
- Enclosure with AC power and battery power
- Enclosure with solar power
- S-base electricity meter
- A-base electricity meter

Each Next Gen Gatekeeper manages a network of thousands of network elements by performing the following functions:
- Network traffic routing and data traffic prioritization
- Network element registration
- Broadcast message distribution
- Scheduled assignments
- Outage alert filtering
- Billing changes and endpoint TOU schedules
- Network communication optimization and performance
- Network performance metrics
- Subnet time synchronization
- Endpoint data collection and optimization
- Subnet element firmware distribution
- Endpoint TOU schedules

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WAN OPTIONS

The Honeywell Next Gen Gatekeeper is an open-architecture component, able to work with a variety of public and private communication networks. It can be deployed using a mixture of WAN solutions, including LTE, satellite, fiber, WiFi, Ethernet, and private RF. This flexibility allows utilities to deploy systems with the confidence that they can migrate to new and emerging WAN solutions as their networks evolve.

ROBUST NETWORK OPERATIONS

Honeywell Next Gen Gatekeepers provide support for electricity utility outage and restoration management and continued electric, gas, and water meter data collection even when power is lost. If a power failure occurs at the gatekeeper site, an optional backup battery enables the device to function within the mesh network and communicate with network elements.

The mesh reroutes communications around sites that lose power, thereby avoiding data collection disruptions caused by single points of failure, usually the bane of tower-based systems.

Honeywell smart meters provide a last-gasp notification, further enhancing the utility's visibility of outages.

For more information
https://hwll.co/smart-energy

Honeywell Smart Energy and Thermal Solutions
208 S. Rogers Lane
Raleigh, NC 27610

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