E360: THE SMART RESIDENTIAL METER FOR THE IOT ERA

When investing in smart metering and smart grid infrastructure, the energy utility customers make a long-term commitment. At the same time, technology is changing at a rapid speed and it is important to stay competitive in this fast-evolving environment where more and more use cases beyond traditional AMI are required.

The new residential meter from Landis+Gyr is a Gridstream® Connect intelligent endpoint and an integral part of our IoT platform and end-to-end solution portfolio.

Benefits at a glance

- Dependable connectivity offering LTE NB-IoT/M1 on a single IoT communication platform
- Powerful measurement capabilities for near real-time data availability
- Flexibility provided by the unique modular and integrated design
- Security according to the highest industry standards
- Intelligent endpoint of our Gridstream® Connect platform
- Minimized Total Cost of Ownership

Dependable communication through LTE CAT M1 and NB1 on a single IoT communication platform

Communication technology is a core element in any smart metering solution. Not only has it a significant impact on the total solution performance, it also plays a crucial role in the Total Cost of Ownership.

The new E360 family introduces a new integrated E360 LTE meter supporting CAT M1 and NB-IoT communication. The technology is designed to cope with today's IoT development by allowing the connection of large numbers of different devices into a single network. It is capable of transferring data cost-efficiently and very reliably compared to previously available mobile technologies. The better signal penetration into buildings enables it to reach smart energy meters even in basements two levels below ground.

Powerful communication and measurement capabilities for near real-time data availability

The E360 offer a new and intelligent way of sending data from the meter to the system. This intelligent push functionality in combination with Landis+Gyr Head End System is scalable and improves the performance of the device on various levels: It enables the delivery of near real-time data for more accurate and granular power flow calculations - and with this, you improve the transparency and efficiency of your network.

Furthermore, advanced power quality functionality for enhanced network stability monitoring meets the stringent demands of today's operational environment.

Smart Push cellular P2P architecture

| Meter data delivery
Conventional PULL architecture | E.g. Ones per day | Delivery of data | System requests
for data
Automated re-reading
by the HES
in case of interruption | HES |

| Meter data delivery E360
Smart Push™ up to 1 million metering points | E.g. Every 15 min. | Intelligent endpoints
identify data
to be pushed | Delivery of data
Automated re-push in
case of interruption | HES |

Security by design across the entire lifecycle of the meter

Today's security requirements call for a holistic approach that includes the technical security, but also embraces the planning of the entire smart infrastructure from design to production, installation and maintenance processes.

The E360 has role-based access and data protection is based on encryption and authentication in all data communications. A comprehensive set of logs shows e.g. events, meter point access, firmware updates and all the communication attempts to the meter.

Future proof design to keep your options open

The device is built on a modern, intelligent firmware platform that enables adding new functionalities and technologies during its operation. Upgrades can be made remotely, quickly and reliably without affecting normal meter operations. There is also headroom for future applications in the firmware; they can be easily introduced through standardized interfaces.

Available variants

Variants for 1ph	Basic	Full Options	Options for 3ph	Basic	Full Options
Supply Control Switch	In	In	Supply Control Switch	In	In
Wireless M-buss	Out	In	Wireless M-buss	Out	In
P1 - port	In	In	Wired M-Bus	Out	In
230 VAC relays	1x	2x	P1 - port	In	In