

Advanced and Smart Metering

Landis+Gyr E460S Single Phase DIN-Rail (Smart)

A single phase, 2-wire, 80A split prepayment meter in a DIN-Rail housing featuring bottom connect terminals, dual mounting options, IP54 degree of protection and terminal cover options for tamper sensing. International open standard G3-PLC OFDM communications is utilised between the meter and the P160 Customer Interface Unit (CIU). Typically installed in a pole-top enclosure, installation of the E460 single phase DIN-Rail meter is cost-effective as no additional communication wires are required between the meter and CIU. The E460 and P160 are able to be used in a stand-alone split configuration and with the addition of a Data Concentrator and Head End System, may form part of an end-to-end Advanced Metering Infrastructure (AMI), thereby enabling advanced functionality such as two-way communications, remote monitoring, fraud detection, Real-time Clock and Time-of-Use (TOU).

Landis+Gyr E460S Single Phase BS

A single phase, 2-wire, 100A multi-function split prepayment PLC meter in a BS housing incorporating smart metering functionality combined with STS prepayment. The E460 solution is based on open standards using G3-PLC OFDM and dlms communications between the meter, the P160 CIU and the data concentrator. The CIU plugs into an existing mains outlet in the household, communicating with the meter via existing household wiring. The meter can operate off-line as a stand-alone split meter or on-line as part of an end-to-end, two-way Advanced Metering Infrastructure (AMI) smart metering solution comprising meters, data concentrators and smart meter systems. When used, the data concentrator is typically installed in the mini-substation at the low-voltage distribution transformer. The meter supports a local keypad and a back-lit display. Communications alternatives include G3-PLC between the meter, CIU and the data concentrator, and point-to-point options facilitated by an under terminal cover and on-board RS485 port. The use of international open standards and STS prepayment standards ensures a future-proof solution that protects the utility's metering investment. The meter configuration supports both prepayment and post-payment.

Landis+Gyr E460S Three Phase

A three phase, 4-wire, 100A per phase split, smart prepayment meter operating with the P160 PLC CIU. The meter and CIU communicate by means of G3-PLC technology, using existing household wiring. When the E460S three phase meter is used in conjunction with a Data Concentrator and head-end system and forms part of the AMI solution, it supports powerful e-metering functionality such as two-way communications between the meter, CIU and DC450 Data Concentrator. The meter can be configured locally via the IEC-62056-21 optical interface using Landis+Gyr's dotMAP suite of software, and remotely via the Head-end system when in on-line mode. As with all the meters in the E460 family, it supports a comprehensive set of TOU configuration options including season, weekly and daily tables and special days. It supports both prepayment and post-payment modes of operation and allows remote disconnection and reconnection of the meter's supply control switch.

Landis+Gyr DC450 G3-PLC Data Concentrator

The Landis+Gyr DC450 is a new generation G3-PLC intelligent data concentrator for large scale meter reading and controlling applications. It handles the communication between the Head End System (HES) and the G3-PLC metering devices, reading data automatically and sending data directly to the system or storing it for later retrieval by the HES. The DC450 communicates with the metering device using G3-PLC communications. It transfers messages to and from the HES using the standard TCP/IP communication protocol over an Ethernet connection or with its pluggable 2G/3G modem. Simple "plug & play" installation of pre-configured devices results in considerable time and cost savings. The DC450 supports a web admin client, enabling the utility engineers to remotely access the DC450 using standard internet explorer, and with the new topology view, utility engineers can significantly improve their field "clean-up" operations during the rollout and troubleshooting phase.

Product Portfolio



Landis+Gyr E550 (ZMG300/400) Range (160A model available)

The E550 series meets the specific demand for high network quality offering substantially increased protection against meter fraud and data access by unauthorised persons. Not only are the meters able to detect strong magnetic fields and record these events, but also differentiate between fraud detection, network and power quality and other general events. In addition, a range of integrated features assist with installation and support in the field. An under-terminal communications capability makes these meters extremely attractive for both commercial and industrial applications. A 160 Amp model is available.

Landis+Gyr E650 (ZMD300/400) Range

The E650 range (ZMD300/400) offers mature technology for demanding industrial applications. With comprehensive metering and memory options, the Landis+Gyr E650 series comprises the world's leading meters for mid-sized and large industrial applications offering the utility high precision and a secure investment. A key feature is the modular communications where modules are able to be easily exchanged at any time. The E650 meter family offers modularity, high interoperability and is the ultimate building block for industrial and commercial infrastructure.

Landis+Gyr S650 (SxA300xT) Range

The S650 design is based on the E650 proven hardware platforms, combining modern technology and robustness, complete with features dedicated for smart grid applications. The series 4 offers improved hardware (aligned with safety standard IEC62052-31). New features enable grid digitisation thanks to easy-to-install Rogowski sensors. Further features include street light monitoring and control, energy profile analysis, remote equipment monitoring and control, PQ monitoring, and asset protection and optimisation.

Landis+Gyr E850 (ZMQ) Range

Designed for use in power plants, transmission networks, substations and for grid-connected industrial and commercial consumers, the E850 range of meters offers precise values for all billing applications and comprehensive data for network operation. With its exceptionally fast measurement system, high data resolution and proven operational security, the E850 is ideal for use in a wide range of grid applications. Available in both Class 0.2S and Class 0.5S variants and especially suited for grid applications, the E850 range provides faster measuring and energy flow detection than typical commercial and industrial meters. The meters are available in the standard E650 (ZMD) series housing, or in rack-mounted versions.

Landis+Gyr E65C Communication Units

With more than 10 different communication units, the E65C family is designed for remote meter reading and other advanced metering operations. The communication devices are accommodated in an easily exchanged communication unit, which is inserted internally under the front door of the meters provided for this purpose, or for all other meters for external use in an adapter CU-ADP2. These communication units are used with the new meter generations of Landis+Gyr E650, S650 and E850.

Service Tools

MAP110 Service Tool and MAP120 Configuration Tool

The Landis+Gyr service tools comprise the MAP110 and MAP120. The MAP110 is a comprehensive service tool which is easy to use while offering extensive functionality. It is used for reading out register data (billing and instantaneous data), profiles (event log and load profile) and for changing important device parameters. MAP110 communicates with Landis+Gyr advanced meters that comply with DLMS (Device Language Message Specification) or IEC 62056-21 standards. MAP120 allows configuration of the majority of Landis+Gyr advanced meters, namely the E550, E650 and E850 range, and the communication modules. Irrespective of the device being configured, the look and feel of the customer interface is the same, thereby assisting the technician to easily use more than one device without having to become acquainted with new software.

