

Electricity Meter  
Residential

Landis  
+Gyr<sup>+</sup>  
manage energy better



## Landis+Gyr E350

ZMF/ZFF/ZCF100 series 2

Flexible modularity  
and Future-Proof

## **A flexible solution for every utility need**

The E350 meter family offers utilities best-in-class solutions to prepare them for the future of energy management. The E350 meter, E35C communications module and their various support systems have been designed to cover every utility requirement, which is important in a rapidly changing market environment.

Each aspect of the meter family is highly flexible and provides strong functionality. The product offers a broad range of functions and smart metering possibilities and is an integral part of Landis+Gyr's smart grid solution Gridstream™ which covers the entire energy supply chain.

By providing interoperability and best-in-class modular design, the meter family offers longevity and secures utilities long term investment. As a complete solution provider, Landis+Gyr offers interoperability with devices of other manufacturers. E350 serves as a gateway for collecting data and interacting with the 3rd party gas, heat and water meters through the M-bus interface.

As a trusted partner, Landis+Gyr listens to its customers and understands their unique needs. Due to this profound utility insight and anticipated future market changes, Landis+Gyr has designed a family of products to satisfy every utility requirement today and in the future.

Landis+Gyr is the leading provider of integrated energy management solutions in the world. With its end-to-end smart grid solution Gridstream, Landis+Gyr enables utilities to maximize potential of their energy management assets through easy access to a wide range of advanced multi-energy products and systems. Currently, there are over half a million multi-energy M-bus meters in operation in Europe.

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## Customized and Future-Proof

Our new generation of modular residential meters is both customizable in functionality and future-proof to protect your investment. Additionally, they are optimised for life-cycle performance in the residential sector.



### Basic Performance

Landis+Gyr E350 (ZMF/ZFF/ZCF100) meter is the answer to the Advanced Metering Infrastructure needs.

### Electronics

- Active and reactive measurement
- Accuracy up to Cl 1 resp. Cl B (MID) [active energy] and Cl 2 [reactive energy]
- Wide range measurement from starting current to maximum current
- Up to 6 rates possible
- Multi-energy ready (can show values from other electricity, gas, water and heat meters on the display)
- Large liquid crystal display with max. 8 digits for the value and high resolution
- Button for display control
- Optical interface
- Optical test output

### Functions

- Installation support
- Upgradable with modules
- Easy installation and exchange of modules
- Anti-tampering package

### Housing

- Glass fibre reinforced, antistatic
- Wiring diagram printed on the meter faceplate



## Modular meters

Modular residential meter with direct connection provides the following basic functions for active and reactive energy measurement via 8 channels:

- Configured data for standard applications
- Raw data for future applications

Different measurement modes:

- Vectorial sum (Ferraris mode / polyphase)
- Active and reactive energy
- Import / export
- Unidirectional etc.

Existing modules are working also with E350 series 2.

E350 is upgradable with different E35C AMM-modules from Landis+Gyr and modules from 3rd parties.

The meter family is suitable for microgeneration installations (immune against disturbances in the range of 2-150 kHz)

E350 (ZCF100 series 2)  
E350 (ZMF100 series 2)  
E350 (ZFF100 series 2)

		E350 (ZCF100 series 2)	E350 (ZMF100 series 2)	E350 (ZFF100 series 2)
<b>Network</b>	1-phase	■	■	■
	3-phase 3-wire	■	■	■
	3-phase 4-wire	■	■	■
<b>Energy type</b>	Active energy	■	■	■
	Reactive energy	■	■	■
<b>Measuring accuracy</b>	Class 2 (IEC) / Class A (MID)	■	■	■
	Class 1 (IEC) / Class B (MID)	■	■	■
	Class 2 (IEC) (reactive energy)	■	■	■
<b>Voltage</b>	U <sub>n</sub> 230 V, 127 V	■	■	■
	U <sub>n</sub> 3 x 230 / 400 V (220 V - 240 V)	■	■	■
	U <sub>n</sub> 3 x 230 V	■	■	■
<b>Current</b>	I <sub>b</sub> ; I <sub>ref</sub> = 5 A, 10 A, 15 A, 20 A	■	■	■
	I <sub>max</sub> = 60 A, 80 A, 100 A	■	■	■
<b>Frequency</b>	f <sub>n</sub> = 50 Hz	■	■	■
<b>Channels</b>	8 measurement channels	■	■	■
<b>Display</b>	Digit size 8 mm	■	■	■
	8 digits	■	■	■
	up to 94 displays in sum in 2 lists	■	■	■
<b>Tariffing (external)</b>	Single rate	■	■	■
	Double rate	■	■	■
	Up to 4 rates	■*	■*	■*
	Up to 6 rates	■*	■*	■*
<b>Miscellaneous</b>	Disconnecter (optional)	■	■	■
	Anti-tampering package (optional)	■	■	■
	Multi-energy display*	■*	■*	■*
	Display push button	■	■	■
	Vector display	■	■	■
	Obis code display	■	■	■

\* ) depending on the used module

## **Securing your investment with high flexibility and strong functionality**

Building on its tradition of open communication meters, including the ZCF/ZMF/ZFF100 meters, Landis+Gyr has introduced the new E350, the latest generation of its flexible modular meter. The new E350 is compatible with the interfaces and communication modules of the existing ZCF/ZMF/ZFF100 meter platform.

Landis+Gyr E350 meters offer maximum flexibility for future market requirements, therefore, protecting your long-term investment.

## Manage energy better

Landis+Gyr is the leading global provider of integrated energy management products tailored to energy company needs and unique in its ability to deliver true end-to-end advanced metering solutions. Today, the Company offers the broadest portfolio of products and services in the electricity metering industry, and is paving the way for the next generation of smart grid.

Landis+Gyr, an independent growth platform of the Toshiba Corporation (TKY:6502) and 40% owned by the Innovation Network Corporation of Japan, operates in 30 countries across five continents, and employs 5,000 people with the sole mission of helping the world manage energy better.

More information is available at [www.landisgyr.com](http://www.landisgyr.com).

### Landis+Gyr in short

- 5000 employees worldwide
- Operations on all five continents
- Broadest portfolio of products and services in the industry
- 25 years of smart metering experience
- 1000 AMM systems delivered
- 300 million energy meters produced
- Largest relevant engineering capacity in the industry
- 65 years of direct load management experience
- 15 million load management receivers produced
- ISO certified for quality and environmental processes
- World leader in integrated energy management solutions
- Committed to improved energy efficiency and environmental conservation
- Solid and established partner network

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