Landis
Gyr+
manage energy better

Landis+Gyr E230
ZxR100xC/xR

Cost effective and
multi-functional
residential/light
commercial meter

Secure your revenue and meet market demands

The E230 has been created to help harmonise business processes. This cost effective metering solution can reduces total cost of ownership and management costs through enhanced functions and high quality design:

- Multiple measurement channels with full four quadrant energy measurement technology
- Improve customer services with advanced billing and load profiles
- Reduced theft and losses due to maximum security features
- Easy installation and trouble free diagnostic solution
- Large LCD displaying information clearly for accurate meter reading

Best-in-class

The E230 is a standalone residential meter designed to meet various customer needs. With a reputation for high quality, Landis+Gyr has created a cost effective electricity meter for residential and light commercial applications that provides an extensive variety of features making it suitable for many installation purposes.

The E230 can record active and reactive energy consumption primarily in three phase four wire networks and provides up to four tariffs. The meter can operate in four-wire networks in one, two or three phase configurations as well as three-wire networks. The meter conforms to IEC 62053, EN 50670 (MID) in its mechanical specification and is suited to installation in any situation that also meets these standards.

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) by optional pulse inputs
- 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
- Anti tampering package

Housing

- Glass fibre reinforced, antistatic
- Wiring diagram can be shown on face side

Technical data

		E230 (ZxR100AC/CC)	E230 (ZxR100AR/CR)
Connection Type	Direct connection, 3-phase	■	■
	3-phase 3-wire	■	□
	3-phase 4-wire	■	■
Measuring accuracy	Class 2 (IEC) / Class A (MID)	■	■
	Class 1 (IEC) / Class B (MID)	■	■
	Class 2 (IEC) (reactive energy)		

All accuracies are standard on both E230's.

		E230 (ZxR100AC/CC)	E230 (ZxR100AR/CR)
Voltage	3 x 120/208 V	■	■
	3 x 120/400 V	■	■
Tariffing (external)	Up to 2 rates	■	■
	Up to 4 rates	■	■
	Up to 6 rates	□	■
Inputs/ Outputs	Pulse output S0(r53)	■*	■*
	Up to 2 outputs	■	■
	Up to 2 inputs	□	■
	Up to 4 inputs	□	■
Communication	Optical interface	■	■
	CS interface	□	□
Advanced Functionality	Load profile/billing	□	■
	MD	2ch	4ch
	Energy channels	6	8
	Tamper detection	■	■
	Active/reactive	■	■
	Active only	■	■
	Current Range 5-125A	■	■
	Test outputs	■	■
	QOS	■	■
	60Hz	■	■
	Supercap	□	■
	Readout (IEC)	■	■
	OBIS	■	■
	Battery (NPR)	□	□

* Pulse output programmable for periodic data output
■ standard
□ not available/supported
□ optional

Highlights

Integrated meter for residential purpose with direct connection

Provides the basic functions for active and reactive energy measurement with multiple tariffs

Delivers:
- Configured data for standard application
- Raw data for future applications

Different measurement modes (examples):
- Vectorial sum (Ferraris mode)
- Import / export only
- Unidirectional

Versatile meter for unique customer needs

By listening to customer needs, Landis+Gyr designed a meter that provides various best-in-class functionalities and fulfils many utility requirements:

- Accurate measurement even when phase failures occur
- Maximum security is provided through up to four authentication levels
- Several diagnostic values provide invaluable support during installation and for trouble-shooting
- Information is clearly displayed on a large liquid crystal display (LCD), showing a wide range of information
- E230 can be ordered with several anti-tampering features such as magnetic field detection
- Wide range of measurements possible
- The meter conforms to industry standards which make it interoperable with meters of other manufacturers

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.

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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