



Electricity Meter
ZMF/ZFF/ZCF100
New Generation

Flexible modularity
Functional and Future-Proof

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Expandable for future functions

Upgradable for future communication needs: flexible remote communication due to the exchangeable communication modules without breaking approval seal

Enhanced installation comfort with embedded service functions

Additional functions against meter manipulation reduce non technical losses

Optimised AMM system investment

- modular future-proof AMM system with meters, concentrators, remote data acquisition and data evaluation in the central station based on field-proven Landis+Gyr technology

Customised and Future-Proof

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



Basic Performance

ZMF/ZFF/ZCF100 meters are the answer to the Advanced Metering Infrastructure needs.

Electronics

- Active and reactive measurement
- Accuracy up to CI 1 resp. CI B (MID) [active energy] and CI 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 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 can be shown on face side



Modular meters

Modular meter for residential purpose with direct connection

Provides the basic functions for active and reactive energy measurement with up to 6 channels

Delivers:

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

Different measurement modes:

- Vectorial sum (Ferraris mode)
- Import / export only
- Unidirectional

Existing modules are working also with ZMF/ZFF100 series 2. Upgradable with different AMM-modules from Landis+Gyr and 3rd parties

		ZCF100	ZMF100 series 2	ZFF100 series 2
Network	1-phase	■	■	■
	3-phase 3-wire	■	■	■
	3-phase 4-wire	■	■	■
		■	■	■
Energy type	Active energy	■	■	■
	Reactive energy	■	■	■
Measuring accuracy	Class 2 (IEC) / Class A (MID)	■	■	■
	Class 1 (IEC) / Class B (MID)	■	■	■
	Class 2 (IEC) (reactive energy)	■	■	■
Voltage	$U_n = 230\text{ V}$	■	■	■
Current	$I_b/I_{ref} = 5\text{ A}, 10\text{ A}$	■	■	■
	$I_b/I_{ref} = 20\text{ A}, 40\text{ A}$	■	■	■
	$I_{max} = 80\text{ A}$	■	■	■
	$I_{max} = 100\text{ A}$	■	■	■
Frequency	$f_n = 50\text{ Hz}$	■	■	■
Channels	2 measurement channels	■	■	■
	6 measurement channels	■	■	■
Tariffing (external)	Single rate	■	■	■
	Up to 2 rates	■	■	■
	Up to 6 rates	■	■	■
Miscellaneous	Disconnecter	■	■	■
	Amtitampering package	■	■	■
	Multi energy display	■	■	■
Display push button		■	■	■
	Vector display	■	■	■
	Obis code display	■	■	■



Modules

Expands the modular meter with multifaceted possibilities

No metrological approval necessary

Provides customized communication

Additional functions can be integrated in future modules easily

Can be adapted easily in the ZMF/ZFF/ZCF100 meters without breaking the certification seal

		AD-FX1 version 2	AD-xG version 2	AD-xP version 2	AD-xG version 3.0
Metering	Power quality supervision	■	■	■	■
	Daily and hourly profiles up to 4 registers	■	■	■	■
	Internal clock	■	■	■	■
	Remotely configurable tariff/rate control	■	■	■	■
Tariffing	Up to 2 rates	■	■	■	■
	Multi rate	■	■	■	■
Communication medium	PLC	■	■	■	■
	GSM / GPRS	■	■	■	■ ¹⁾
Rate control	Control Input	■	■	■	■
	Internal time of use	■	■	■	■
Digital inputs	Status input or S0 pulse input	■	■	■	■
Communication	RS485	■	■	■	■
	M-bus master for max 4 devices	■	■	■	■
	via optical port of meter	■	■	■	■
Disconnecter control		■	■	■	■
Outputs	Combined (S0 or control output contact, 100mA, 230VAC)	■	■	■	■
Extended functions	Alarm at power down / resume, with super cap	■	■	■	■
	Parametrizeable via optical port of meter	■	■	■	■
	Supports ecometer	■	■	■	■
		■	■	■	■

¹⁾ including: GPRS push alert / pull mode, Clip Call mechanism, private GPRS network with fixed IP addresses

ZxF 100 meters offer a maximum for future market requirements, therefore, protecting your investment.. It is the solution for your investment protection for the future, and a maximum of flexibility towards the future market requirements.

Manage energy better

We deliver peace-of-mind when it comes to managing your energy. Decades of leadership in technology and in-depth knowledge at Landis+Gyr means we are able to offer you an extensive, high quality and proven portfolio.

Obtaining the highest level of energy efficiency has never been easier. We have translated our unique expertise of utility processes into integrated energy management solutions and we can help you streamline your processes, increase customer loyalty and secure revenue.

Let us tailor our innovative solutions to meet your specific needs. Whether electricity, water, heat/cold, gas metering or load management, we provide what you need to ensure that your energy is managed with increased precision and reliability.

With Landis+Gyr as your trusted partner, you can manage energy better.

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
- 60 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

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