



Electricity Meter

ZMD300/400 ZFD400

Investment protection through flexible modularity

No-one can tell what customers will require tomorrow. That is why you want a safe metering investment for the future and a maximum flexibility for the best investment protection: comprehensive functionality, unique modularity and smart interoperability within a meter family.

- more than 30 different communication options
- extensive range of options to serve maximum no. of applications
- robust long life design in electronics and mechanics
- many special features to support installation, maintenance and operations

The leading product for I&C metering

Since its introduction to the market Landis+Gyr has delivered over on million ZFD400 and ZMD300/400 meters to customers in more than 70 countries around the world. This popularity encourages us to continously improve the quality and functionality of this flagship I&C meter. With ongoing investments to performance and functionality this top product line gives our customers the optimal solution for their demanding I&Cneeds.



Basic Functionality

Quality and Safety: The extensive basic functionality already meets all major IEC standards applicable to the respective requirements.

Electronics	Wide-voltage power supply	
	Large LCD display	
	Up and down buttons for display	
	Optical button for the display	
	Utility sealed reset button	
	Optical interface (IEC 62056)	
	Optical test output	
	Three control inputs	
	Two output contacts	
Recording	8 measurement channels with total register	
	24 energy registers	
	Stored values register	
	9 operating time registers	
	Event log	
Functions	Installation support on display	
	Set mode via buttons	
	Real-time clock with power reserve	
	Instantaneous voltage values	
	Voltage monitoring	
	Gregorian and Persian calendar	
	Remote control of output contacts	
Housing	Glass fiber reinforced, antistatic	
	Crystal clear, unbreakable windows	
	Wiring diagram on faceplate	
	Utility sealed battery box	





Basic Configuration

Landis+Gyr ZMD300/400 and ZFD400 are the answer to your specific needs: from the reliable commercial meter to the complex measuring device with comprehensive additional functionality for sophisticated data acquisition and flexible tariff control of large industriel customers.

Modular communication units provide the right choice for the best data channel at all times. «Plug+Play» modules also offer you full freedom of choice for deployment of new communication technologies.

		ZFD402C* ZFD405C ZFD410C ZMD402C* ZMD405C ZMD410C	ZFD410A ZMD410A ZMND310A
Application	High voltage		
	Medium voltage		
	Low voltage		
Connection Type	Transformer conn.		
	Direct connection		
Metering accuracy (active/reactive energy)	Class 0.2/0.5		
	Class (0.5)/1.0 MID C		
	Class (1.0)/2.0 MID B		
		Combi	Active
Energy Type	Active energy		
	Reactive energy		
	Apparent energy		

^{*} only intelligent communication (Type T)

Additional Functionality

Tariff functions	Average demand	
	Time-of-use (TOU) tables	
	Programmable matrix-based mixes control	
Measured Values	Power factor	
	Instantaneous values for current, phase angle,	
	frequency, power factor	
Recording	24 demand registers	
-	2 power factor register	
	14-channel profile memory	
Special functions	Monitoring for power, current, power factor	
•	Backlit display	
	CT/VT error correction	
	Detection of strong magnetic fields	
	Opening detection of terminal cover	
Extension boards	4 control inputs + 2 output contacts	
(only one possible)	2 control inputs + 4 output contacts	
	6 output contacts	
	RCR161 ripple-control-receiver	
	RCR161 + 4 outpout contacts	
	Additional power supply + 4 output contacts	

Software Tools

MAP 120	Parameterisation
MAP 110	Installation support
	Meter data readout
	Load profile analysis
	Security system visualisation
	Communications settings

Combining IEC 1107 and DLMS for total communication capability

Maximum communication performance

Only reliable, total availability of precise metering data provides the prerequisites for an efficient billing process. The range of ZMD300/400 and ZFD400 meters are «bilingual»: handling the legacy IEC1107 protocol and the well established DLMS both of which comply with the IEC62056 standard.

An optimal data flow is assured by the built-in communication interface or by readily interchangeable communication units. That gives you the flexibility to optimise your metering communication investments.

Exceptional functionality for demanding I&C metering

- The broad selection of measured quantities can be utilized via special registers
- evaluation of threshold value overshoots and undershoots provides for comprehensive analysis and control of loads and tariffs; operational irregularities are detected, and can be logged
- enhanced operating and installation tools reduce user errors, and simplify installation and service
- alarms for new service and maintenance possibilities
- optional additional power supply for remote meter reading when the measuring-circuit voltage is off
- MAP service tools for adaptation of standard functions such as time-of-use tables, billing lists, profile memory or pulse outputs and for remote parameter modification.



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

- More than 5000 employees worldwide
- Operations on all five continents
- Broadest portfolio of products and services in the industry
- 25 years of AMM experience
- More than 1000 AMM systems delivered
- More than 300 million meters produced
- Largest relevant engineering capacity in the industry
- ISO certified for quality and environmental processes
- Contributor to more efficient use of resources and hence better environmental outcomes
- World leader in integrated energy management solutions

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