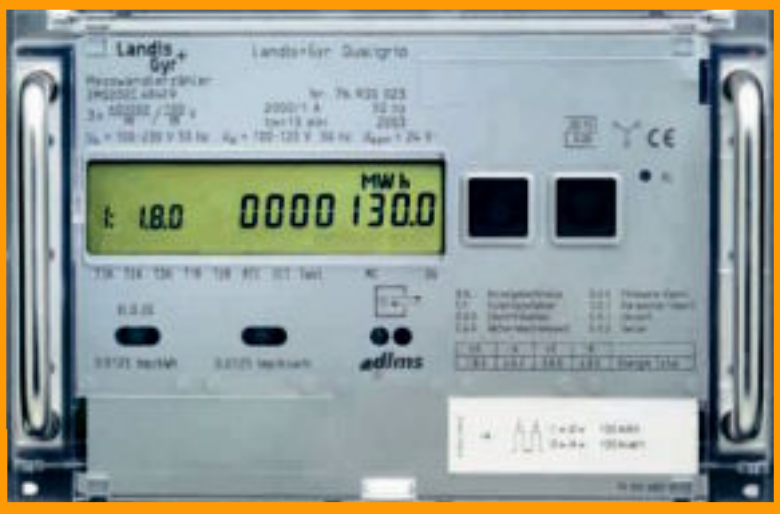
Electricity Meters / IEC

HIGH PRECISION

Landis+Gyr Qualigrid

ULTIMATE PRECISION
BECAUSE EVERY WATT COUNTS

HIGH PRECISION



Landis+Gyr Qualigrid

ULTIMATE PRECISION
BECAUSE EVERY WATT COUNTS

A high-precision meter for use in production and transmission applications, as well as at the facilities of major consumers. These meters are expected to deliver precision, long-term stability and reliability. We deliver more than that. A metering system with the highest resolution and measuring dynamics, and a profile memory with short capture periods – functionality that meets the highest demands for high-precision metering, and sets new standards.

BASIC FUNCTIONALITY

	Landis+Gyr Qualigrid
MEASURING ELECTRONICS	Highly stable, immune measuring electronics
	Transmitting contacts
POWER SUPPLY	3-phase from measuring-circuit voltage, and additional power supply
RECORDING	8 Mbyte memory for profiles and status
	8/16/36 measurement channels with total registers (without tariffs)
	24 energy registers (with tariffs)
	36 diagnostic registers
	Event log
	Daily profiles for indicies
FEATURES	Real-time clock with power reserve
	Power quality values (dips und THD)
	Instantaneous voltage and current values (e.g. primary values)
	Installation support on the display
	Optical interface according to IEC62056
	Backlit display
HOUSING	Wall mount f6
	Rack mount f9 with Essailec connector
	Utility sealed battery box

Our new high-precision meter is available in both the established rack-mounted and wall mounted housing.

Landis+Gyr Qualigrid

INNOVATION FOR GREATER COMPETITIVENESS

Landis+Gyr Qualigrid is our answer to your requirements for increased cost-effectiveness and process efficiency in the precise metering of large energy quantities.

With its excellent measuring properties, exceptional precision, and reliability, you are equipped for both simple and complex metering tasks. Additionally, this meter also provides a future oriented communication protocol, while offering convincing compatibility with already installed metering equipment at the same time.

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MODULAR FUNCTIONALITY VIA SOFTWARE CONFIGURATION

BASIC CONFIGURATION

	Landis+Gyr Qualigrid	ZMQ202C.2	ZMQ202C.4	ZMQ202C.6	ZMQ202C.8
APPLICATION	Transformer-operated meter for voltage and current transformer connection	■	■	■	■
MEASURING ACCURACY	Active energy, class 0.2S	■	■	■	■
	Reactive energy, class 1.0	■	■	■	■
	or class 0,5	■	■	■	■
COMMUNICATION	Integrated RS485 interface with dlms		■	■	■
	Integrated RS485 interface with IEC870	■			
SOFTWARE-CONFIGURATION PARAMETERS	Energy profiles (original meter values)		■	■	■
	Time-of-use (TOU)		■	■	■
	Operating events and alarms	■	■	■	■
	Voltage and current monitoring		■	■	■
	Line and transformer loss measurement	■		■	■
	Voltage dip table		■	■	■
	Total harmonic distortion THD			■	■
	Tariff control		■	■	■
	Current/voltage transformer correction			■	■
	Network quality module (option) [1]	■		■	■
	Bypass feeder operation	■	■	■	■
	Delta values		■	■	■
	Average demand, Pmax				■
	Apparent energy measurement, power factor				■
	Single-phase energy measurement				■
	Frequency monitoring				■
	Status contacts (optional)				
	Integration period		■	■	■
	Power threshold			■	■
	Energy flow	■	■	■	■

[1] Not available in all countries

SELECTABLE COMMUNICATION

	B4	E22	G22	M4/M22
RS232 INTERFACE	■			
RS485 INTERFACE	■	■	■	■
PSTN-MODEM				■
GSM-MODEM			■	
ETHERNET TCP/IP		■		

COMMUNICATION

Only reliable, total availability of precise measured data provides the prerequisites for an efficient data processing and billing process. In order to meet your communication needs both now and in the future, the meter features the dlms protocol. This protocol also provides transmission of original meter values to the central station (according to STOM method). With the integrated RS485 interface a direct link to other meters is possible without the use of a communication unit. A module is only required for communication with the central station.
For existing installations with FAG using serial communication, only type C.2 is available.

All necessary communication applications are covered by a small number of units. This modularity also offers you full freedom of choice for deployment of new technologies.

+ ADDITIONAL FUNCTIONALITY

	Landis+Gyr Qualigrid
MEASURED QUANTITIES	Instantaneous values for voltage
	current
	phase angle
	power factor (all phases) [1]
	frequency
	THD as a percentage or kWh of active energy
RECORDING	Profile with capture periods up to 1 min.
	Daily profiles for indicies
	Diagnostic registers
EXTERNAL MONITORING	Alarm indication with alarm contact
	Operating event indication with contact
	Phase failure
	Current without voltage in individual phases
INTERNAL MONITORING	Self-test function
	Regular testing of all memories
MONITORING OF MEASURED QUANTITIES	Voltage
	Current
	Demand
ADDITIONAL POWER SUPPLY	Special operating mode for low loading transformer leads
	Status information if voltage present
IEC870	Communication unit with subset of IEC870-5-102 for communication with existing IEC870 central stations
	Special meter C.2 for connection to existing FAG

+SOFTWARE TOOLS

	Landis+Gyr MAP
MAP 120	Parameterization
	Primary data adaption
	Communications settings
MAP 110	Installation support
	Meter data readout
	Load profile analysis
	DIP table visualisation
	Security system visualisation

ADDITIONAL BENEFITS

This is added value: the large selection of measured quantities can be utilized via separate registers. Diagnostic values with threshold registers allow a comprehensive analysis of the supply. Operational irregularities are detected, stored, and transmitted. Enhanced operating and installation support simplifies installation and service.

Additionally: alarms and operating events for network monitoring and measuring, additional power supply for remote meter reading when the measuring circuit voltage is off; MAP service tools for adjustment of primary data and for modification of communication settings.

Landis+Gyr

DEFINING «MEANS OF PRECISION»

Outstanding solutions with persuasive intelligence, reliability and durability as the basis for enhanced customer process efficiency. This is our commitment. Continuously bearing in mind economic and ecological requirements to your advantage: optimal life cycle costs as well as safe recycling.

We set the standards in energy metering. That has been our passion since 1896, and will remain so in the future.

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