Electricity Meters
Residential

Landis+Gyr
manage energy better

Electricity Meters

Ferraris

Reliable and cost-effective
for today and the future

BENEFITS

The reliable, maintenance-free Ferraris meters for single and two-rate tariffs

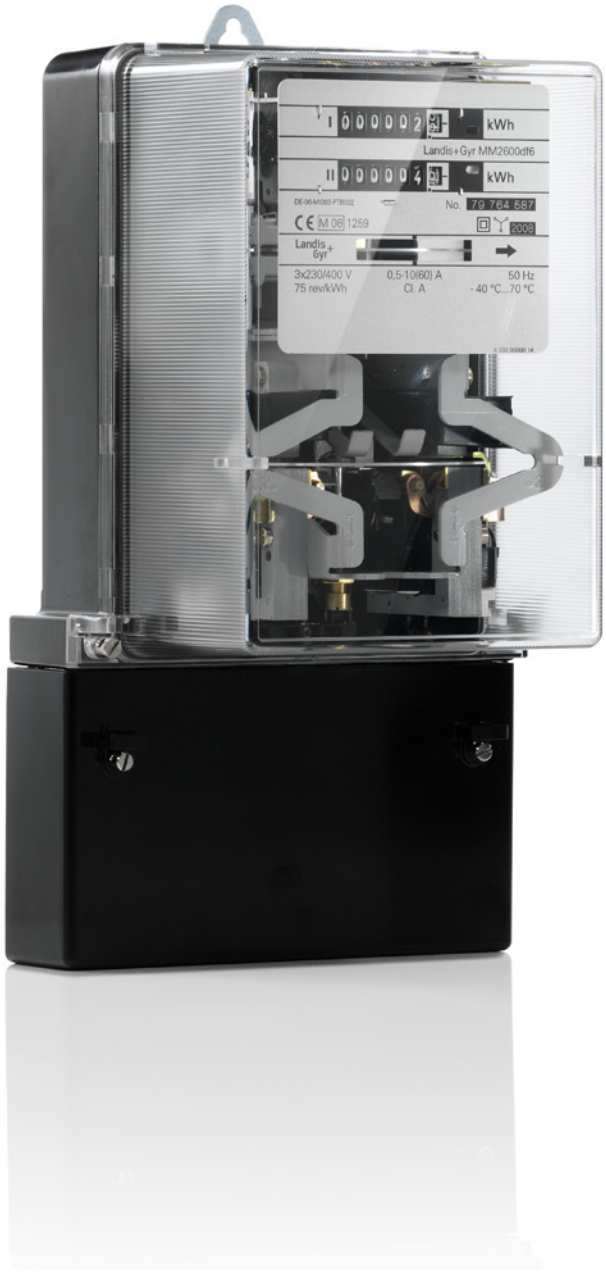
Concentration on essentials and the use of proven technologies are the key requirements that we place on our own products as the world‘s leading manufacturer of energy meters. Our extremely high quality demands on the materials and technologies we use garantuee accurate, reliable and cost-optimized metering for your residential customers.

We abide by fundamental ecological principles – from production to disposal. So you can be sure of making the right investment both for the present and the future, for your business and for the environment.

Over 100 years of expertise in this field is our guarantee for your satisfaction.

Best-in-class meter: for today and the future

Our residential meters are both reliable and cost-effective, with an outstanding long life-cycle performance for residential application.



Basic Functionality

Landis+Gyr CM100 single-phase meters completely with IEC, EN, DIN and BS standards with direct connections for active energy applications.

Landis+Gyr MM2000 Polyphase meters completely with IEC, EN, DIN standards with direct and transformer-connections for active and reactive energy applications.

Features

- Steplessly variable adjustment mechanism
- Constant minimum friction
- Constant braking force
- Low starting current
- Low power consumption
- High torque
- High resistance to short circuits
- High resistance to surge voltages (> 8kV)
- Operating temperature from -25 to + 75°C
- Low temperature coefficient
- High dielectric strength
- Protection class
- According to IEC 60529: IP53
- Long life expectancy (> 30 years)
- Maintenance free
- Fulfil requirements IEC 62052-11, 62053-11, EN 50470-1 and EN 50470-2
- MID (EU) and OFGEM approved
- Excellent price /performance ratio
- High stability

Basic data for CM 100 single-phase

		CM140/143	CM160/165	CM180	CM140/143	CM170	CM140/143	CM16/165	CM170
		Normal connection					Symmetrical connection		
DIN-housing		■	■	■					
SymCon-housing					■	■	■	■	■
Current in A I_b (I_{max}) resp. I_{ref} (I_{max})	5 (20)	■					■		
	5 (30)		■						
	5 (40)			■					
	10 (40)	■					■		
	10 (60)		■					■	
	15 (60)	■					■		
	15 (100)					■			■
	20 (80)				■		■		
	25 (100)						■		
Voltage	120, 127, 220, 230 and 240 V	■	■	■	■	■	■	■	■
Frequency	50 or 60 Hz	■	■	■	■	■	■	■	■
Class accuracy	Class 2.0/Class A	■	■	■	■	■	■	■	■
Power consumption at 50 Hz	Voltage circuit 1.0 W / 3.8 VA	■	■		■		■	■	
	Voltage circuit 1.2 W / 5 VA			■		■			■
	Current circuit 0.1-0.3 W / 0.15-0.35 VA	■	■	■	■	■	■	■	■
Test voltage	4 kV at 50 Hz/1 min.	■	■	■	■	■	■	■	■
Resistance to surge voltage	> 8 kV at 1.2/50 µs	■	■	■	■	■	■	■	■
Weight	Approx. 1.4-1.6 kg for a single-tariff execution	■	■	■	■	■	■	■	■

Basic data for MM2000 three-phase

		MM2400	MM2400R1	MM2500	MM2500R1	MM2600	MM2600R1	MM2800	MM2460
Current in A I_b (I_{max}) resp. I_{ref} (I_{max})	5 (20)	■	■						
	5 (30)					■	■		
	5 (40)							■	
	10 (40)	■	■						
	10 (60)					■	■		
	20 (80)	■	■						
	20 (100)			■	■				
	20 (120)					■	■		
	1/6					■	■		
	1.5/6								■
Voltage 3P: 3P+0	3x220 V, 3x380 V, 3x400 V, 3x415 V	■	■	■	■	■	■		■
	3x127/220 V, 3x133/230 V, 3x220/380 V	■	■	■	■	■	■		■
	3x220 V, 3x380 V, 3x400 V, 3x415 V	■	■	■	■	■	■	■	■
Frequency	50 or 60 Hz	■	■	■	■	■	■	■	■
Class accuracy	Class 1.0, Class A								■
	Class 2.0, Class A	■		■		■		■	
	Class 3.0 reactive Version R1		■		■		■		
Power consumption at 50 Hz	Voltage circuit 1.0 W / 4.5 VA	■	■	■	■	■	■	■	■
	Current circuit 0.1-0.2 W / 0.1-0.2 VA	■	■	■	■	■	■	■	■
Test voltage	4 kV at 50 Hz, 1 min	■	■	■	■	■	■	■	■
Resistance to surge voltage	> 8 kV at 1.2/50 µs	■	■	■	■	■	■	■	■
Weight	Approx. 3.2-3.7 kg for a single-tariff execution	■	■	■	■	■	■	■	■

HIGHLIGHTS

A broad product range for residential requirements

Precision, reliability, durability and cost-effectiveness over the entire life cycle - are the essential requirements for meters used for residential application.

Our meters fulfil the requirements for both DIN and British Standard applications. The measurement of active energy complies with Class 2 (IEC 62052-11 and IEC 62053-11) or Class A (EN 50470-1 and EN 50470-2).

The MM2000 meter is also available as Class 1 (IEC 62052-11 and 62053-11) or Class B (EN 50470-1 and EN 50470-2).

Basic Mechanical Data for CM100 and MM2000

Tariff devices	Single or two-rate registers, optional: unidirectional (only CM100)
Size of figures	4.6 x 2.5 mm (larger figures on request)
Lower bearing	Double-jewel or magnetic
Meter frame design	Anticorrosive steel plate
Stopping device	Stop holes in rotor disc or stop wire with vane
Brake magnet	High coercive material
Meter base	DIN-housing up to I_{max} = 60A CM100, MM2000 Terminal bore Ø 7.2mm Symcon-housing CM100 High-current meter MM2000 Terminal bore Ø 9.3mm Transformer-connected meter MM2000 Terminal bore Ø 5.2mm
Meter cover	Black thermo-setting material or transparent thermoplastic material
Terminal cover	Short or extended
Reverse-running stop	Optional, type suffix „h“
Pulsing device SO*	Optional, type suffix „r11.6“ (only for MM2000 meters)
Voltage outage indicator	Optional, type suffix „w“

*acc. DIN 43 864 and IEC 62053 - 31 Cl. A, only for residential purposes

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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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