

GAMA 100

Single-phase electricity meter
for residential and
commercial metering



- Measurement of active, reactive energy and maximum demand
- Accuracy class: for active energy - 1.0 (B), for reactive energy - 2.0
- Measurement in two channels (in phase and neutral lines)
- Single or Multi-tariff (up to 6 tariffs)
- Optical and electrical communication interfaces in accordance with IEC 62056-21 and/or DLMS
- Internal communication modules (internal PLC modem, USB host, wireless or wired MBus, RS485, powering of external modem)
- Load profiles and instantaneous values
- Internal relay for user disconnection
- Extended anti-tamper features
- High-level security (encryption and authentication)
- Internal clock with events logbook (power outage, power over-limit, reverse current flow, influence of magnetic field, opening of meter cover, opening of terminal cover, clock setting, parameter change, internal error, firmware update)
- Power quality monitoring (over-voltage, under-voltage, over-current)
- **LoRaWAN**



Technical Specification

GAMA 100

Ratings

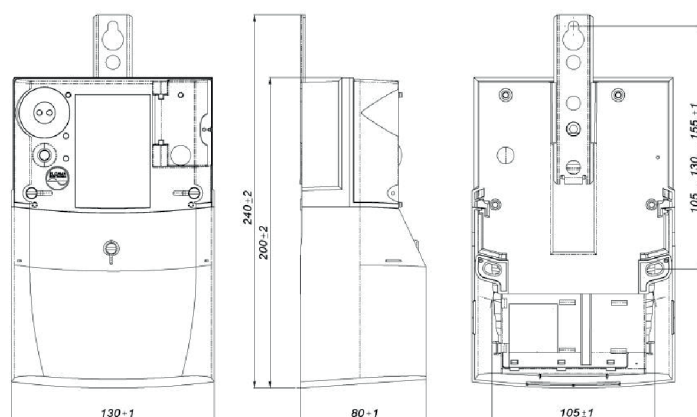
• System	Single-Phase 2-wire
• Accuracy class: - for active energy - for reactive energy	1.0 (IEC 62053-21), B (EN 50470-3) 2.0 (IEC 62053-23)
• Reference voltage, U_n	100V; 120V; 127V; 220V; 230V; 240V; special on request
• Reference (maximum) current, I_b (I_{max})	5(40)A, 5(60) A; 5(80)A; 5(100)A; 10(60)A; 10(80) A; 10(100)A
• Starting current	0,4% I_b
• Reference Frequency, Hz	50 or 60
• Meter constant, imp/kWh	1...19999, programmable
• Power consumption: - In voltage circuit - In current circuit	< 1 VA (< 0.5 W) < 10 VA (< 1.0 W) with PLC module < 10 VA (< 1.3 W) with PLC and wired MBus modules < 10 VA (< 2.2 W) with PLC and wireless MBus modules < 0,05 VA
• Temperature range	-40°C to +70°C

Internal real-time clock

• Accuracy	< 0,5s/24 h ($T=23^{\circ}\text{C}$),
• Backup power supply	Li-ion battery or Super Cap (rechargeable)
• Operation duration using only backup: - Li-ion battery - Super Cap	> 12 years > 7 days

Case & Dimensions

• Case	UV stabilized polycarbonate
• Insulation	Protective class II
• Protection class	IP53 (optional IP54)
• Dimensions, mm	200 x 130 x 80
• Weight, kg	< 0,6



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