

GAMA 300

Three-phase electricity meter
for industrial metering



- Measurement of active (bidirectional), reactive (in 4-quadrants) and apparent (bidirectional) energy
- Accuracy class 0.2s (IEC 62053-22)
- Single or Multi-tariff (up to 6 tariffs)
- Optical and electrical communication interfaces in accordance with IEC 62056-21 and/or DLMS/COSEM
- Internal communication modules (USB host, RS485, Ethernet), powering of external modem
- Internal real time clock
- Load and billing profiles, instantaneous values
- Second independent load profile
- Extended anti-tampering features
- High-level security (encryption and authentication)
- Event 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 (slow voltage variation, THD, unbalance, flicker)
- Registration of line and transformer losses on the basis of I^2h and U^2h measurements



Technical Specification

GAMA 300

Ratings

• Connection type	Three-phase 4-wire
• Accuracy class:	
- For active energy	class 0.2s (IEC 62053-22)
- For reactive energy	class 0.5s (IEC 62053-22, by substituting $\cos(\varphi)$ to $\sin(\varphi)$)
• Reference voltage, V:	
- 4 wire networks	3x220/380; 3x230/400; 3x240/415; 3x57,7/100; 3x63,5/110; 3x69,2/120; 3x120/208; 3x127/220
- Multi-range	3x57,7/100...230/400
• Reference I_n (maximum) current, A	1(1,25); 1(6); 5(6,25); 5(10);
• Starting current:	0,1% I_n
• Reference Frequency, Hz	50 or 60
Meter constant, imp/kWh, imp/kVAh	1...60000
• Power consumption per phase:	
- In voltage circuit	<1.0 VA (<0,5 W)
- In current circuit	< 0,5 VA
• Temperature range	-40°C ... +70°C

Internal real-time clock

• Accuracy	< 0,5 s/24h (T = 23°C)
• Backup power supply of clock	Li-ion battery and/or Super Cap
• Li-ion battery	Changeable or internal
• Operation duration using only backup:	
- Li-ion battery	> 12 years
- Super Cap	up to 7 days

Case & Dimensions

• Case	UV stabilized polycarbonate
• Insulation	Protective class II
• Protection class	IP53 (Optional IP54)
• Dimensions, mm	260 × 175 × 80
• Weight, kg	< 1.5 kg

