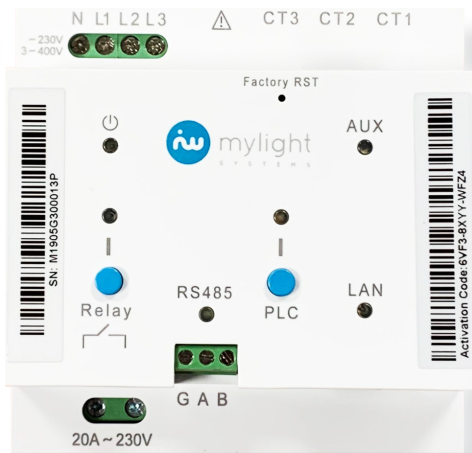


# SMART MASTER G3

## SMART METER

For Energy Monitoring and Management



Three current transformers included

- MONITORING CONSUMPTION AND PRODUCTION
- MANAGING LARGE ELECTRICAL APPLIANCES
- GATEWAY FOR COMMUNICATION WITH MYLIGHT SYSTEMS SOFTWARE



### 3 IN 1 ENERGY MANAGEMENT SOLUTION

- Three metering inputs (consumption, production and equipment), three current transformers included
- Activation/deactivation of electrical loads
- Embedded smart processing (data centralised and stored for one month)



### COMMUNICATION VIA PLC (POWER LINE COMMUNICATION)

- Automatic pairing with products in the MyLight Systems range
- No additional wiring
- Long-range communication (no radio interference)



### EXTERNAL CONNECTIVITY

- RS485 gateway: compatible with up to 10 meters
- Two Ethernet ports: router mode can be activated to create and supervise a local Ethernet network
- Secure connection with the cloud via a dedicated electronic cryptography chip
- Optional broadband modem

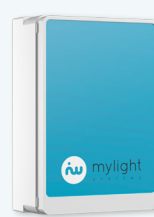
## COMPLEMENT OF THE MYLIGHT SYSTEMS SOLUTIONS



MyLight Systems software suite



MID approved meter



Central Management Unit (CMU)

## CONNECTIVITY OPTIONS



Cellular modem



PLC plug

# TECHNICAL DATA

## Main characteristics

Full name (abbreviation)	Smart Master G3 (MG3)
Main functions	Meter, controller, scheduler, gateway

## Environmental conditions and dimensions

Operating temperature	5°C to 40°C
Relative humidity	5% to 90%
Altitude	0 - 2000 m
Impact/electrical protection categories	IK08 / IP20
Dimensions (mm)	90 * 90 * 54
Weight	225 g excluding courant transformer
Mounting	35 mm DIN rail (5 modules)

## Metering

Accuracy (active energy and power)	Class 2 according to IEC 61557-12
Extension cable lengths	3 m, can be adapted up to 12 m (with 4 extensions fitted in series) - Ref. MLSH-MG3-19
Standard maximum measurement (on request)	100A (1000A)
Current transformer connections	2 contacts, tool-free locking, codable pin Ref.: MLSH-MG3-15

## Regulations

EMC/electrical safety standard	EN 50561-1, EN 50412-2-1, EN 61000-6-2, EN 61000-6-3, EN 55032, EN 55035, EN 61326-1, EN 62311 / EN 61010-1
Environment	RoHS, REACH
Guarantee	2 years (can be extended subject to conditions)



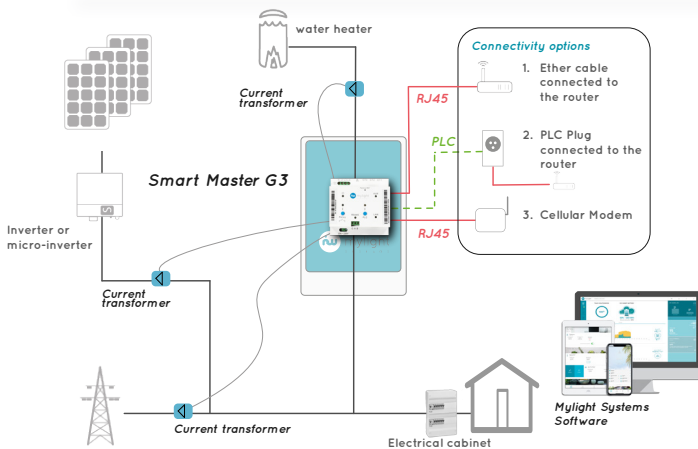
## Electrical characteristics

Nominal operating voltage	230/400 V +/- 10%
Connection type	Single-phase/three-phase (no earth)
Frequency (tolerance)	50 Hz (+/- 5%)
Maximum current relay	20A
Min. / nom. / max. connection section	0.75 mm <sup>2</sup> / 1.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
Max. power	10 VA
Pollution category	2
Over voltage category	III
Protection class	2
Exterior protection required	Power: 2A circuit breaker, curve C (less than 50 cm away) Relays: 20A circuit breaker, curve C (less than 100 cm away)

## Communication

Standard	IEEE 1901 and Homeplug AV2
PLC	Date rate Frequencies
	Max. 500 Mbps 2-30 MHz
	Meters: • MC1D01RM (single-phase) • MC3D01RM (three-phase)
	Actuators: contact us Other: on request
RS485	Cable to use End-of-line resistor included Maximum distance
	2*0.5 mm <sup>2</sup> twisted or shielded multiconductor, earth optional 120 ohms 100 m
	Max. length
	20 m
Ethernet	Data rate Configuration
	Max. 100 Mbps Separable LAN and AUX ports DHCP server
Interfaces	LEDs Buttons
	Power, PLC, ETH AUX, ETH LAN, RS485 PLC, relay

## Installation diagram - SINGLE-PHASE



## Installation diagram - THREE-PHASE

