



## RS485 METERS

# ENERGY METERS

For monitoring solutions

- RS485 MODBUS COMMUNICATION
- PULSE OUTPUTS
- TWO-WAY MEASUREMENT : IMPORT/EXPORT



### PERFORMANCE & RELIABILITY

- MID-certified meter
- Pass-through or remote measurements
- Up to 10 devices per system



### EASY TO INSTALL

- Factory-configured by MyLight Systems
- Installation on 35 mm DIN rail
- Manual configuration possible using the screen and buttons



### BROAD RANGE OF USES

- Measuring the production of solar energy
- Measuring the overall consumption of the building
- Measuring electricity consumption by device

## COMPATIBILITY OF THE OFFER



**Smart Master G3 Solution**  
The three meters



**Rbee Solar Solution**  
MC1D01RM meter

# TECHNICAL DATA

## Electrical characteristics

Meter model	MC1D01RM	MC3D01RM	MG3C01RM
Power supply	230 V, 50 Hz (single-phase)	230/400 V, 50 Hz (three-phase)	230/400 V, 50 Hz (three-phase)
Type of measurement, maximum current	Pass-through, 100 A	Pass-through, 100 A	Remote with CT, 75 A/0, 333 V, 3m, Ø 10mm, 0.5%
Measurement direction	Import/Export	Import/Export	Import/Export
Measured energy	Active (Wh)	Active (Wh)	Active (Wh)
IEC62053-21 measurement class	Class 1	Class 1	Class 1 (excluding clamps)
Protection class	Class 2	Class 2	Class 2
Meter consumption	<2 W / 10 VA	<2 W / 10 VA	<2 W / 10 VA
Over voltage category	III	III	III
Pollution degrees	2	2	2
MID	Yes	Yes	No

## Environmental characteristics and dimensions

Weight	220g	320g	320g
Operating temperature (min./max.)	-25°C +55°C	-20°C +50°C	-25°C +55°C
Protection rating	IP51 Indoors	IP51 Indoors	IP51 Indoors
Dimensions (mm)	36l x 99w x 63h	72l x 100w x 66h	72l x 100w x 66h
Number of modules (18 mm)	2	4	4
Max. altitude	3,000 m	3,000 m	3,000 m

## RS485 communication

Cable to use	2x0.34 mm <sup>2</sup> twisted	2x0.34 mm <sup>2</sup> twisted	2x0.34 mm <sup>2</sup> twisted
Max. distance with resistance of 120 W	100 m	100 m	100 m

## Pulse outputs

Number of pulse outputs	Two (Import/Export)	One (Total)	Two (Export / Total)
Pulse output (default)	1,000 pulses/kWh	1,000 pulses/kWh	1,000 pulses/kWh 66 pulses/kWh
Cable to use	0.5 mm <sup>2</sup>	0.5 mm <sup>2</sup>	0.5 mm <sup>2</sup>
Maximum distance	20 m with unshielded cable, 50 m with shielded cable		
Type of output	Outputs with opto-isolator (maximum 27 mA)		

## Regulations

Standard	IEC62053-21	EN 61326-1:2013	EN 61010-1:2010
Warranty	2 Years	2 Years	2 Years

