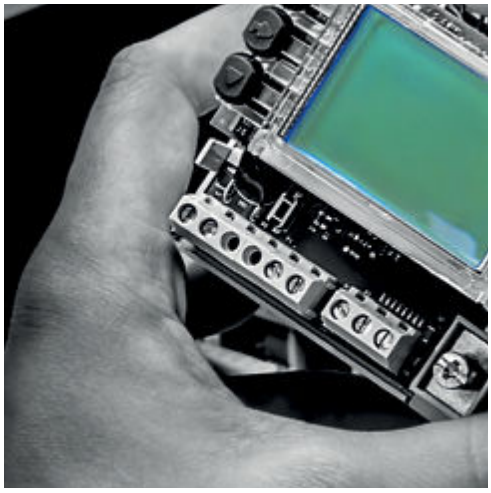
algodue®
ELETTRONICA



MID ENERGY METERS CATALOGUE

MADE IN ITALY

ALGODUE MID ENERGY METERS

Cover
of the sealable
terminals

MID
tested and
verified

DIN rail
mounting

Wide LCD display

Buttons for
configuration
and display of
measurements

Metrological
LED

APPLICATIONS

RENEWABLE ENERGY

To measure the electrical energy produced by hydroelectric, wind, geothermal, photovoltaic, etc. production plants and to invoice this data, the best option is an Algodue MID energy meter.

CHARGING STATIONS FOR ELECTRIC VEHICLES

The market for electric vehicles is constantly expanding and there is a growing need for charging stations. In order to account for electricity consumption inside each charging station, **MID energy meters** are needed.
Algodue has been chosen by some of the most prestigious manufacturers of charging stations because the characteristics of his MID energy meters are perfect to operate inside these stations.

INDUSTRIAL AND CIVIL USES

Algodue meters are used in projects where there is a need for accounting or billing consumption in campsites, shopping centres, residential centres, civil and/or industrial buildings, etc. (submetering) or to do the totalization of the electric energy in the industry for each single line or machine.

FEATURES

INFORMATION MANAGEMENT

Monitoring the points and periods of higher electricity consumption allows you to quickly identify sources of energy wastage.

REMOTE MANAGEMENT

Algodue UEM meters allow the creation of a centralised communication network for the control and automatic transfer of consumption data.

TARIFF MANAGEMENT

Algodue meters equipped with a tariff input (all models except Ethernet, UEM80-2D, UEM40-2C and UEC40-2C ones) allow the consumption of active, reactive and apparent energy to be split into two separates tariff registers to optimise energy costs.

PULSE COUNTING

Thanks to the S0 output for pulse emission, Algodue meters offer simple and immediate monitoring of consumption.

ENERGY SAVING

The data provided by the meter makes it possible to implement a policy to eliminate unnecessary consumption and inefficiencies in the installation. In this way, resources can be used more efficiently.

SUBMETERING

Algodue's MID certified energy meters enable tax-valid measurements (billing).

ALGODUE BENEFITS

ACCURACY

Active energy class B or C according to EN 50470-3 (MID). Superior accuracy even at low currents.

WIDE TEMPERATURE RANGE

Some Algodue energy meters have an operating temperature range of -25° C to +70°C. This particular feature increases the number of applications.

ETHERNET VERSION

The Ethernet version of the Algodue meters has a built-in webserver, memory (8M) and allows manual or automatic transfer of recorded data via a predefined and FREE **FTP PUSH** protocol.

FREE SOFTWARE

The MODBUS MASTER and MBUS MASTER software can be downloaded free of charge from www.algodue.com and allow full management of the energy meter.

MINIMUM INVESTMENT - WIDE POSSIBILITIES

Algodue UEC meters offer the possibility of pulse-only use. And they offer also the possibility of combining the specific communication module on the basis of subsequent and new applications.

INSTALLATION DIAGNOSTICS

Algodue meters indicate the phase sequence and diagnostics of signal polarity errors in connection, in order to ensure correct installation.

A WIDE RANGE

THE MOST COMPLETE RANGE OF MID ENERGY METERS MADE IN ITALY ON THE MARKET

Algodue's wide range of energy solutions includes single-phase and three-phase meters for consumption measurement and control, with MID certification:

UEM RANGE for remote management via built-in communication port

MODEL	VERSION		CURRENT INPUTS		COMMUNICATION PORT			MEMORY 8MB	ACCURACY CLASS	MAXIMUM OPERATING TEMPERATURE	INPUTS / OUTPUTS		MID
	SINGLE PHASE	THREE PHASE	CT	DIRECT	RS485	MBUS	ETHERNET				TARIFF INPUT	S0 OUTPUT	
UEM1P5-4D R		•	•		•				B	55°C	•	(1 S0)	OPT.
UEM1P5-D M		•	•			•			B	55°C	•	(1 S0)	OPT.
UEM1P5-4D E		•	•				•	•	B	55°C		(1 S0)	OPT.
UEM6C-4D R		•	•		•				C	55°C	•	(1 S0)	OPT.
UEM6C-4D M		•	•			•			C	55°C	•	(1 S0)	OPT.
UEM6C-4D E		•	•				•	•	C	55°C		(1 S0)	OPT.
UEM40-2C R	•			40A	•				B	55°C		(1 S0)	OPT.
UEM40-2C M	•			40A		•			B	55°C		(1 S0)	OPT.
UEM40-2C R70	•			40A	•				B	70°C		(1 S0)	OPT.
UEM80-2D R	•			80A	•				B	55°C		(1 S0)	OPT.
UEM80-2D M	•			80A		•			B	55°C		(1 S0)	OPT.
UEM80-2D E	•			80A			•	•	B	55°C			OPT.
UEM63-4D R70		•		63A	•				B	70°C	•	(1 S0)	OPT.
UEM80-4D R		•		80A	•				B	55°C	•	(1 S0)	OPT.
UEM80-D M		•		80A		•			B	55°C	•	(1 S0)	OPT.
UEM80-4D E		•		80A			•	•	B	55°C		(1 S0)	OPT.

UEC RANGE with the optical port that can be combined with external communication modules

MODEL	VERSION		CURRENT INPUTS		COMMUNICATION PORT			MEMORY 8MB	ACCURACY CLASS	MAXIMUM OPERATING TEMPERATURE	INPUTS / OUTPUTS		MID
	SINGLE PHASE	THREE PHASE	CT	DIRECT	RS485	MBUS	ETHERNET				TARIFF INPUT	S0 OUTPUT	
UEC1P5-D		•	•						B	55°C	•	(2 S0)	OPT.
UEC6C-X		•	•						C	55°C	•	(2 S0)	OPT.
UEC40-2C	•			40A					B	55°C		(1 S0)	OPT.
UEC80-D		•		80A					B	55°C	•	(2 S0)	OPT.
UEC80-2D	•			80A					B	55°C	•	(2 S0)	OPT.

COMMUNICATION MODULES to be combined with UEC series energy meters

MODEL	SIZE	TYPE OF POWER SUPPLY	POWER SUPPLY RANGE	COMMUNICATION PORT	COMMUNICATION PROTOCOL	MEMORY	SOFTWARE INCLUDED
RS485	1 DIN module	AUX	185-285VAC	RS485	Modbus RTU/ ASCII		Modbus Master
M-Bus	1 DIN module	Through bus connection	32VDC	M-Bus	M-Bus		M-Bus Master
Lan Gateway	2 DIN modules	AUX	185-285VAC	Ethernet	HTTP, HTTPS, FTP, NTP, Modb TCP	25MB	Modbus Master

UEM SERIES

MID — EN 50470-1
EN 50470-3

ETHERNET
RS485 & M-BUS

THREE PHASE &
SINGLE PHASE

S0 OUTPUT FOR
PULSE EMISSION

ACCURACY
CLASS B OR C

UEM40

UEM40-2C R70

UEM80-2D

UEM1P5

UEM6C

UEM63-4D R70

UEM80

- With built-in communication
- Remote management
- For tax and invoicing purposes
- Bi-directional measurements in 4 quadrants
- Easy and quick to install and set up
- Extremely compact
- Large LCD display with backlit
- Single phase: direct connection up to 40A and 80A
- Three phase: 1/5A with CT
- Three phase: direct connection up to 80A
- Extremely versatile
- Extended temperature range (-25° / +70°C) for UEM40-2C R70 and UEM63-4D R70 models

UEM40

40A single phase energy meter with built-in communication

UEM40-2C R • UEM40-2C M

- Direct connection up to 40 A
- Fully bi-directional 4-quadrant measurements for all energies and powers
- UEM40-2C R for RS485 Modbus RTU communication
- UEM40-2C M for M-Bus communication
- High reliability
- 1 DIN module compact size
- Quick installation
- S0 output for energy pulse emission
- LCD display with 7 main digits
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption: 1.5 VA - 1 W
- Nominal frequency: 50/60 Hz

Voltage & frequency

- Nominal values: 230 V 50/60 Hz

Current

- Starting current I_{st}: 20 mA
- Minimum current I_{min}: 250 mA
- Transitional current I_{tr}: 500 mA
- Reference current I_{ref} (I_b): 5 A
- Maximum current I_{max}: 40 A

RS485 Modbus communication

- Port: RS485
- Protocol: Modbus RTU
- Communication speed: 2400, 4800, 9600, 19200, 38400 bps
- Unit load: 1/8

M-Bus communication

- Port: wired (EN 1434-3)
- Protocol: M-Bus
- Communication speed: 300, 2400, 9600 bps
- Unit load: 1

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 output

- Passive optoisolated
- Maximum values: 27 V_{DC} - 27 mA
- Meter constant: 1000 imp/kWh
  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 100 ±0.5ms

Metrological LED

- Meter constant: 5000 imp/kWh
- Pulse length: 4 ±0.1ms

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -40°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	COMMUNICATION PORT			OPTIONS		
	SELF-POWERED	NONE	RS485 MODBUS	M-BUS	MID	MID S	RESET
UEM40-2C R							
1109.0001.0001	230V 50/60Hz		•		•		
1109.0002.0001	230V 50/60Hz		•			•	
1109.0003.0001	230V 50/60Hz		•				•
UEM40-2C M							
1109.0004.0001	230V 50/60Hz			•	•		
1109.0005.0001	230V 50/60Hz			•		•	
1109.0006.0001	230V 50/60Hz			•			•

Some models can be available for 110V, 115V, 120V or 127V 60Hz power supply.
Please contact the sales department for further details.

BACK TO UEM SERIES

UEM40-2C R70

40A single phase energy meter with built-in communication

- Up to 70°C operating temperature
- For RS485 Modbus RTU communication
- Direct connection up to 40 A
- Fully bi-directional 4-quadrant measurements for all energies and powers
- High reliability
- 1 DIN module compact size
- Quick installation
- S0 output for energy pulse emission
- LCD display with 7 main digits
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption: 1.5 VA - 1 W
- Nominal frequency: 50/60 Hz

Voltage & frequency

- Nominal values: 230 V 50/60 Hz

Current

- Starting current I_{st}: 20 mA
- Minimum current I_{min}: 250 mA
- Transitional current I_{tr}: 500 mA
- Reference current I_{ref} (I_b): 5 A
- Maximum current I_{max}: 40 A

RS485 Modbus communication

- Port: RS485
- Protocol: Modbus RTU
- Communication speed: 2400, 4800, 9600, 19200, 38400 bps
- Unit load: 1/8

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 output

- Passive optoisolated
- Maximum values: 27 V_{DC} - 27 mA
- Meter constant: 1000 imp/kWh
  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 100 ±0.5ms

Metrological LED

- Meter constant: 5000 imp/kWh
- Pulse length: 4 ±0.1ms

Environmental conditions

- Operating temperature: -25°C ... +70°C
- Storage temperature: -40°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	COMMUNICATION PORT	OPTIONS		
	SELF-POWERED	RS485 MODBUS	MID	MID S	RESET
UEM40-2C R70					
1109.0019.0001	230V 50/60Hz	•	•		
1109.0020.0001	230V 50/60Hz	•		•	
1109.0021.0001	230V 50/60Hz	•			•

BACK TO UEM SERIES

UEM80-2D

80A single phase energy meter with built-in communication

UEM80-2D R • UEM80-2D M UEM80-2D E

- UEM80-2D R for RS485 Modbus RTU/ASCII communication
- UEM80-2D M for M-Bus communication
- UEM80-2D E for Ethernet (Modbus TCP) communication
- Direct connection up to 80 A
- Fully bi-directional 4-quadrant measurements for all energies and powers
- Class B according to EN 50470-3 (MID)
- S0 output for energy pulse emission
- LCD display with 7 main digits
- Available with MID certification
- 8 MB for data recording and automatic/manual data transferring (only ETHERNET model)

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption: 7.5 VA - 0.5 W
- Nominal frequency: 50/60 Hz

Voltage range & frequency

- 230 ... 240 V 50/60 Hz

Current

- Starting current I_{st}: 20 mA
- Minimum current I_{min}: 250 mA
- Transitional current I_{tr}: 500 mA
- Reference current I_{ref} (I_b): 5 A
- Maximum current I_{max}: 80 A

RS485 Modbus communication

- Port: RS485
- Protocol: Modbus RTU/ASCII
- Communication speed: 300 ... 57600 bps

M-Bus communication

- Port: wired (EN 1434-3)
- Protocol: M-Bus
- Communication speed: 300 ... 38400 bps
- Unit load: 1

Ethernet communication

- Port: 10/100 Base T
- Protocol: HTTP, NTP, DHCP, Modbus TCP
- Communication speed: 10/100 Mbps
- 8 MB for data recording
- Web server

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 output (no ETHERNET model)

- Passive optoisolated
- Maximum values: 27 V_{DC} - 27 mA
- Meter constant: 500 imp/kWh
  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms

Metrological LED

- Meter constant: 1000 imp/kWh
- Pulse length: 10 ±2ms

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	COMMUNICATION PORT			OPTIONS			
	SELF-POWERED	RS485 MODBUS	M-BUS	ETHERNET	MID	MID S	NO MID	RESET
UEM80-2D R								
1107.0001.0001	230V...240V 50/60Hz	•			•			
1107.0002.0001	230V...240V 50/60Hz	•				•		
1107.0003.0001	230V...240V 50/60Hz	•					•	
1107.0004.0001	230V...240V 50/60Hz	•						•
UEM80-2D M								
1107.0005.0001	230V...240V 50/60Hz		•		•			
1107.0006.0001	230V...240V 50/60Hz		•			•		
1107.0007.0001	230V...240V 50/60Hz		•				•	
1107.0008.0001	230V...240V 50/60Hz		•					•
UEM80-2D E								
1107.0009.0001	230V...240V 50/60Hz			•	•			
1107.0010.0001	230V...240V 50/60Hz			•		•		
1107.0011.0001	230V...240V 50/60Hz			•			•	
1107.0012.0001	230V...240V 50/60Hz			•				•

Some models can be available for 110V, 115V, 120V or 127V 60Hz power supply.
Please contact the sales department for further details.

BACK TO UEM SERIES

UEM1P5

6A three phase
energy meter with
built-in communication

UEM1P5-4D R • UEM1P5-D M
UEM1P5-4D E

- UEM1P5-4D R
  for RS485 Modbus RTU/ASCII communication
- UEM1P5-D M
  for M-Bus communication
- UEM1P5-4D E
  for Ethernet (Modbus TCP) communication
- For 1 or 5A CT
- Programmable CT ratio
- Fully bi-directional 4-quadrant measurements for all energies and powers
- For 4 wire networks with balanced or unbalanced load. M-BUS model can be used also for 3 / 4 wire networks
- Class B according to EN 50470-3 (MID)
- S0 output for energy pulse emission
- Available with MID certification
- 8 MB for data recording and automatic/manual data transferring (only ETHERNET model)

TECHNICAL FEATURES

Power supply
- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption (for each phase):
  RS485 MODBUS / ETHERNET models: 3.5 VA - 1 W
  M-BUS model: 7.5 VA - 0.5 W
- CT burden (for each phase): 0.04 VA
- Nominal frequency: 50/60 Hz

Voltage range & frequency
- 3x230/400 ... 3x240/415 V 50/60 Hz

Current
- Starting current I_{st}: 2 mA
- Minimum current I_{min}: 10 mA
- Transitional current I_{tr}: 50 mA
- Reference current I_{ref} (I_n): 1 A
- Maximum current I_{max}: 6 A

RS485 Modbus communication
- Port: RS485
- Protocol: Modbus RTU/ASCII
- Communication speed:
  300 ... 57600 bps

M-Bus communication
- Port: wired (EN 1434-3)
- Protocol: M-Bus
- Communication speed:
  300 ... 38400 bps
- Unit load: 1

Ethernet communication
- Port: 10/100 Base T
- Protocol: HTTP, NTP, DHCP, Modbus TCP
- Communication speed: 10/100 Mbps
- 8 MB for data recording
- Web server

Accuracy
- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 output
- Passive optoisolated
- Maximum values: 27 V_{DC} - 27 mA
- Meter constant according to the set CT ratio:
  - 1000 imp/kWh with CT ratio in range 1...4
  - 200 imp/kWh with CT ratio in range 5...24
  - 40 imp/kWh with CT ratio in range 25...124
  - 8 imp/kWh with CT ratio in range 125...624
  - 1 imp/kWh with CT ratio in range 625...3124
  - 0.1 imp/kWh with CT ratio in range 3125...10000

  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms

Tariff input (no ETHERNET model)
- Active optoisolated
- Voltage range for tariff 2:
  80 ... 276 V_{AC-DC}

Metrological LED
- Meter constant: 10000 imp/kWh
- Pulse length: 10 ±2mss

Environmental conditions
- Operating temperature:
  -25°C ... +55°C
- Storage temperature:
  -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree:
  IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	COMMUNICATION PORT			OPTIONS			
	SELF-POWERED	RS485 MODBUS	M-BUS	ETHERNET	MID	MID S	NONE	RESET
UEM1P5-4D R								
1101.0001.0001	3x230/400V...3x240/415V 50/60Hz	•			•			
1101.0002.0001	3x230/400V...3x240/415V 50/60Hz	•				•		
1101.0003.0001	3x230/400V...3x240/415V 50/60Hz	•					•	
1101.0004.0001	3x230/400V...3x240/415V 50/60Hz	•						•
UEM1P5-D M								
1101.0005.0001	3x230/400V...3x240/415V 50/60Hz		•		•			
1101.0006.0001	3x230/400V...3x240/415V 50/60Hz		•			•		
1101.0007.0001	3x230/400V...3x240/415V 50/60Hz		•				•	
1101.0008.0001	3x230/400V...3x240/415V 50/60Hz		•					•
UEM1P5-4D E								
1101.0009.0001	3x230/400V...3x240/415V 50/60Hz			•	•			
1101.0010.0001	3x230/400V...3x240/415V 50/60Hz			•		•		
1101.0011.0001	3x230/400V...3x240/415V 50/60Hz			•			•	
1101.0012.0001	3x230/400V...3x240/415V 50/60Hz			•				•

Some models can be available for 110V, 115V, 120V or 127V 60Hz power supply.
Please contact the sales department for further details.

BACK TO UEM SERIES

UEM6C

6A three phase
energy meter with
built-in communication

UEM6C-4A R • UEM6C-A M • UEM6C-4A E
UEM6C-4D R • UEM6C-D M • UEM6C-4D E

- Class C according to EN 50470-3 (MID)
- Available built-in communication: RS485 Modbus RTU/ASCII or M-Bus or Ethernet (Modbus TCP)
- For 1 or 5A CT
- Programmable CT ratio
- Fully bi-directional 4-quadrant measurements for all energies and powers
- For 4 wire networks with balanced or unbalanced load. M-BUS model can be used also for 3 / 4 wire networks
- S0 output for energy pulse emission
- Available with MID certification
- 8 MB for data recording and automatic/manual data transferring (only ETHERNET model)

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption (for each phase):
  RS485 MODBUS / ETHERNET models: 3.5 VA - 1 W
  M-BUS model: 7.5 VA - 0.5 W
- CT burden (for each phase): 0.04 VA
- Nominal frequency: 50/60 Hz

Voltage range & frequency

- 3x230/400 V 50 Hz (MID)
- 3x230/400 ... 3x240/415 V 50/60 Hz (NO MID)

Current

- Starting current I_{st}: 1 mA
- Minimum current I_{min}: 10 mA
- Transitional current I_{tr}: 50 mA
- Reference current I_{ref} (I_n): 1 A
- Maximum current I_{max}: 6 A

RS485 Modbus communication

- Port: RS485
- Protocol: Modbus RTU/ASCII
- Communication speed: 300 ... 57600 bps

M-Bus communication

- Port: wired (EN 1434-3)
- Protocol: M-Bus
- Communication speed: 300 ... 9600 bps
- Unit load: 1

Ethernet communication

- Port: 10/100 Base T
- Protocol: HTTP, NTP, DHCP, Modbus TCP
- Communication speed: 10/100 Mbps
- 8 MB for data recording
- Web server

Accuracy

- Active energy class C according to EN 50470-3 (MID)
- Active energy class 0,5 S according to IEC 62053-22 (NO MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 output

- Passive optoisolated
- Maximum values: 27 V_{DC} - 27 mA
- Meter constant according to the set CT ratio:
  - 1000 imp/kWh with CT ratio in range 1...4
  - 200 imp/kWh with CT ratio in range 5...24
  - 40 imp/kWh with CT ratio in range 25...124
  - 8 imp/kWh with CT ratio in range 125...624
  - 1 imp/kWh with CT ratio in range 625...3124
  - 0.1 imp/kWh with CT ratio in range 3125...10000

  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms

Tariff input (no ETHERNET model)

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 V_{AC-DC}

Metrological LED

- Meter constant: 10000 imp/kWh
- Pulse length: 10 ±2ms

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	INPUTS / OUTPUTS		COMMUNICATION PORT			OPTIONS			
	SELF-POWERED	TARIFF INPUT	S0 OUTPUT	RS485 MODBUS	M-BUS	ETHERNET	MID	MID S	NO MID	RESET
UEM6C-4A R (CTs not included)										
1113.0001.0001	3x230/400V 50Hz	1	1	•			•			
1113.0002.0001	3x230/400V 50Hz	1	1	•				•		
UEM6C-4D R (CTs not included)										
1113.0003.0001	3x230/400V...3x240/415V 50/60Hz	1	1	•					•	
1113.0004.0001	3x230/400V...3x240/415V 50/60Hz	1	1	•						•
UEM6C-A M (CTs not included)										
1113.0005.0001	3x230/400V 50Hz	1	1		•		•			
1113.0006.0001	3x230/400V 50Hz	1	1		•			•		
UEM6C-D M (CTs not included)										
1113.0007.0001	3x230/400V...3x240/415V 50/60Hz	1	1		•				•	
1113.0008.0001	3x230/400V...3x240/415V 50/60Hz	1	1		•					•
UEM6C-4A E (CTs not included)										
1113.0009.0001	3x230/400V 50Hz		1			•	•			
1113.0010.0001	3x230/400V 50Hz		1			•		•		
UEM6C-4D E (CTs not included)										
1113.0011.0001	3x230/400V...3x240/415V 50/60Hz		1			•			•	
1113.0012.0001	3x230/400V...3x240/415V 50/60Hz		1			•				•

Some models can be available for 110V, 115V, 120V or 127V 60Hz power supply.
Please contact the sales department for further details.

BACK TO UEM SERIES

UEM63-4D R70

63A three phase energy meter with built-in communication

- Up to 70°C operating temperature
- For RS485 Modbus RTU/ASCII communication
- Direct connection up to 63 A
- Fully bi-directional 4-quadrant measurements for all energies and powers
- For 4 wire networks with balanced or unbalanced load
- Class B according to EN 50470-3 (MID)
- S0 output for energy pulse emission
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption (for each phase): 3.5 VA - 1 W
- Nominal frequency: 50/60 Hz

Voltage range & frequency

- 3x230/400 ... 3x240/415 V 50/60 Hz

Current

- Starting current I_{st}: 20 mA
- Minimum current I_{min}: 250 mA
- Transitional current I_{tr}: 500 mA
- Reference current I_{ref} (I_b): 5 A
- Maximum current I_{max}: 63 A

RS485 Modbus communication

- Port: RS485
- Protocol: Modbus RTU/ASCII
- Communication speed: 300 ... 57600 bps

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 output

- Passive optoisolated
- Maximum values: 27 V_{DC} - 27 mA
- Meter constant: 100 imp/kWh
  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms

Tariff input

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 V_{AC-DC}

Metrological LED

- Meter constant: 1000 imp/kWh
- Pulse length: 10 ±2ms

Environmental conditions

- Operating temperature: -25°C ... +70°C
- Storage temperature: -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	COMMUNICATION PORT	OPTIONS			
	SELF-POWERED	RS485 MODBUS	MID	MID S	NO MID	RESET
UEM63-4D R70						
1115.0001.0001	3x230/400V...3x240/415V 50/60Hz	•	•			
1115.0002.0001	3x230/400V...3x240/415V 50/60Hz	•		•		
1115.0003.0001	3x230/400V...3x240/415V 50/60Hz	•			•	
1115.0004.0001	3x230/400V...3x240/415V 50/60Hz	•				•

BACK TO UEM SERIES

UEM80

80A three phase energy meter with built-in communication

UEM80-4D R • UEM80-D M UEM80-4D E

- UEM80-4D R for RS485 Modbus RTU/ASCII communication
- UEM80-D M for M-Bus communication
- UEM80-4D E for Ethernet (Modbus TCP) communication
- Direct connection up to 80 A
- Fully bi-directional 4-quadrant measurements for all energies and powers
- For 4 wire networks with balanced or unbalanced load. M-BUS model can be used also for 3 / 4 wire networks
- Class B according to EN 50470-3 (MID)
- 8 MB for data recording and automatic/manual data transferring (only ETHERNET model)
- S0 output for energy pulse emission
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption (for each phase):
  RS485 MODBUS / ETHERNET models: 3.5 VA - 1 W
  M-BUS model: 7.5 VA - 0.5 W
- Nominal frequency: 50/60 Hz

Voltage range & frequency

- 3x230/400 ... 3x240/415 V 50/60 Hz

Current

- Starting current I_{st}: 20 mA
- Minimum current I_{min}: 250 mA
- Transitional current I_{tr}: 500 mA
- Reference current I_{ref} (I_b): 5 A
- Maximum current I_{max}: 80 A

RS485 Modbus communication

- Port: RS485
- Protocol: Modbus RTU/ASCII
- Communication speed: 300 ... 57600 bps

M-Bus communication

- Port: wired (EN 1434-3)
- Protocol: M-Bus
- Communication speed: 300 ... 38400 bps
- Unit load: 1

Ethernet communication

- Port: 10/100 Base T
- Protocol: HTTP, NTP, DHCP, Modbus TCP
- Communication speed: 10/100 Mbps
- 8 MB for data recording
- Web server

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 output

- Passive optoisolated
- Maximum values: 27 V_{DC} - 27 mA
- Meter constant: 100 imp/kWh
  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms

Tariff input (no ETHERNET model)

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 V_{AC-DC}

Metrological LED

- Meter constant: 1000 imp/kWh
- Pulse length: 10 ±2ms

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	COMMUNICATION PORT			OPTIONS			
	SELF-POWERED	RS485 MODBUS	M-BUS	ETHERNET	MID	MID S	NONE	RESET
UEM80-4D R								
1104.0001.0001	3x230/400V...3x240/415V 50/60Hz	•			•			
1104.0002.0001	3x230/400V...3x240/415V 50/60Hz	•				•		
1104.0003.0001	3x230/400V...3x240/415V 50/60Hz	•					•	
1104.0004.0001	3x230/400V...3x240/415V 50/60Hz	•						•
UEM80-D M								
1104.0005.0001	3x230/400V...3x240/415V 50/60Hz		•		•			
1104.0006.0001	3x230/400V...3x240/415V 50/60Hz		•			•		
1104.0007.0001	3x230/400V...3x240/415V 50/60Hz		•				•	
1104.0008.0001	3x230/400V...3x240/415V 50/60Hz		•					•
UEM80-4D E								
1104.0009.0001	3x230/400V...3x240/415V 50/60Hz			•	•			
1104.0010.0001	3x230/400V...3x240/415V 50/60Hz			•		•		
1104.0011.0001	3x230/400V...3x240/415V 50/60Hz			•			•	
1104.0012.0001	3x230/400V...3x240/415V 50/60Hz			•				•

Some models can be available for 110V, 115V, 120V or 127V 60Hz power supply.
Please contact the sales department for further details.

BACK TO UEM SERIES

UEC SERIES

MID EN 50470-1 EN 50470-3

THREE PHASE & SINGLE PHASE

S0 OUTPUT FOR PULSE EMISSION

30 PARAMETERS UP TO 30 PARAMETERS DISPLAYED

ACCURACY CLASS B OR C

UEC40

UEC80-2D

UEC1P5-D

- To be combined with external communication modules
- For tax and invoicing purposes
- Easy and quick to install and set up

UEC6C-X

- Bi-directional measurements in 4 quadrants
- Large LCD display with backlit
- Single phase: direct connection up to 40A and 80A

UEC80-D

- Three phase: 1/5A with CT
- Three phase: direct connection up to 80A
- Simple and reliable
- Two digital outputs for pulse emission

UEC40

40A single phase 2 wire energy meter

UEC40-2C

- Direct connection up to 40 A
- Fully bi-directional 4-quadrant measurements for all energies and powers
- UEC40-2C for a simple energy meter without built-in communication
- High reliability
- 1 DIN module compact size
- Quick installation
- S0 output for energy pulse emission
- LCD display with 7 main digits
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption: 1.5 VA - 1 W
- Nominal frequency: 50/60 Hz

Voltage & frequency

- Nominal values: 230 V 50/60 Hz

Current

- Starting current I_{st}: 20 mA
- Minimum current I_{min}: 250 mA
- Transitional current I_{tr}: 500 mA
- Reference current I_{ref} (I_b): 5 A
- Maximum current I_{max}: 40 A

RS485 Modbus communication

- Port: RS485
- Protocol: Modbus RTU
- Communication speed: 2400, 4800, 9600, 19200, 38400 bps
- Unit load: 1/8

M-Bus communication

- Port: wired (EN 1434-3)
- Protocol: M-Bus
- Communication speed: 300, 2400, 9600 bps
- Unit load: 1

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 output

- Passive optoisolated
- Maximum values: 27 V_{DC} - 27 mA
- Meter constant: 1000 imp/kWh
  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 100 ±0.5ms

Metrological LED

- Meter constant: 5000 imp/kWh
- Pulse length: 4 ±0.1ms

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -40°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	COMMUNICATION PORT			OPTIONS		
	SELF-POWERED	NONE	RS485 MODBUS	M-BUS	MID	MID S	RESET
UEC40-2C							
1110.0001.0001	230V 50/60Hz	•			•		
1110.0002.0001	230V 50/60Hz	•				•	
1110.0003.0001	230V 50/60Hz	•					•

BACK TO UEC SERIES

UEC80-2D

80A single phase
2 wire energy meter

- Direct connection up to 80 A
- Fully bi-directional 4-quadrant measurements for all energies and powers
- Class B according to EN 50470-3 (MID)
- Tariff input
- 2 S0 outputs for energy pulse emission
- LCD display with 7 main digits
- IR optical port for communication
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption: 7.5 VA - 0.5 W
- Nominal frequency: 50/60 Hz

Voltage range & frequency

- 230 ... 240 V 50/60 Hz

Current

- Starting current I_{st}: 20 mA
- Minimum current I_{min}: 250 mA
- Transitional current I_{tr}: 500 mA
- Reference current I_{ref} (I_b): 5 A
- Maximum current I_{max}: 80 A

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 outputs

- 2 passive optoisolated
- Maximum values: 250 V_{AC-DC} - 100 mA
- Meter constant: 500 imp/kWh
  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms ON time

Tariff input

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 V_{AC-DC}

Metrological LED

- Meter constant: 1000 imp/kWh

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	INPUTS / OUTPUTS		COMMUNICATION PORT	OPTIONS			
	SELF-POWERED	TARIFF INPUT	S0 OUTPUT	IR	MID	MID S	NO MID	RESET
UEC80-2D								
1108.0013.0001	230V...240V 50/60Hz	1	2	•	•			
1108.0014.0001	230V...240V 50/60Hz	1	2	•		•		
1108.0015.0001	230V...240V 50/60Hz	1	2	•			•	
1108.0016.0001	230V...240V 50/60Hz	1	2	•				•

BACK TO UEC SERIES

UEC1P5-D

6A three phase
3 or 4 wire programmable
energy meter

- For 1 or 5A CT
- Programmable CT ratio
- Fully bi-directional 4-quadrant measurements for all energies and powers
- For 3 / 4 wire networks with balanced or unbalanced load
- Class B according to EN 50470-3 (MID)
- Tariff input
- 2 S0 outputs for energy pulse emission
- LCD display with 8 main digits
- IR optical port for communication with external modules
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption (for each phase): 7.5 VA - 0.5 W
- CT burden (for each phase): 0.04 VA
- Nominal frequency: 50/60 Hz

Voltage range & frequency

- 3x230/400 ... 3x240/415 V 50/60 Hz

Current

- Starting current I_{st}: 2 mA
- Minimum current I_{min}: 10 mA
- Transitional current I_{tr}: 50 mA
- Reference current I_{ref} (I_n): 1 A
- Maximum current I_{max}: 6 A

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 outputs

- 2 passive optoisolated
- Maximum values: 250 V_{AC-DC} - 100 mA
- Meter constant according to the set CT ratio:
  - 1000 imp/kWh with CT ratio in range 1...4
  - 200 imp/kWh with CT ratio in range 5...24
  - 40 imp/kWh with CT ratio in range 25...124
  - 8 imp/kWh with CT ratio in range 125...624
  - 1 imp/kWh with CT ratio in range 625...3124
  - 0.1 imp/kWh with CT ratio in range 3125...10000

  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms

Tariff input

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 V_{AC-DC}

Metrological LED

- Meter constant: 10000 imp/kWh
- Pulse length: 10 ±2ms

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	INPUTS / OUTPUTS		COMMUNICATION PORT	OPTIONS			
	SELF-POWERED	TARIFF INPUT	S0 OUTPUT	IR	MID	MID S	NO MID	RESET
UEC1P5-D (CTs not included)								
1102.0013.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•	•			
1102.0014.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•		•		
1102.0015.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•			•	
1102.0016.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•				•

BACK TO UEC SERIES

UEC6C-X

6A three phase 3 or 4 wire programmable energy meter

UEC6C-A • UEC6C-D

- Class C according to EN 50470-3 (MID)
- For 1 or 5A CT
- Programmable CT ratio
- Fully bi-directional 4-quadrant measurements for all energies and powers
- For 3 / 4 wire networks with balanced or unbalanced load
- Tariff input
- 2 S0 outputs for energy pulse emission
- LCD display with 8 main digits
- IR optical port for communication with external modules
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption (for each phase): 7.5 VA - 0.5 W
- CT burden (for each phase): 0.04 VA
- Nominal frequency: 50/60 Hz

Voltage range & frequency

- 3x230/400 V 50 Hz (MID)
- 3x230/400 ... 3x240/415 V 50/60 Hz (NO MID)

Current

- Starting current I_{st}: 1 mA
- Minimum current I_{min}: 10 mA
- Transitional current I_{tr}: 50 mA
- Reference current I_{ref} (I_n): 1 A
- Maximum current I_{max}: 6 A

Accuracy

- Active energy class C according to EN 50470-3 (MID)
- Active energy class 0,5 S according to IEC 62053-22 (NO MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 outputs

- 2 passive optoisolated
- Maximum values: 250 V_{AC-DC} - 100 mA
- Meter constant according to the set CT ratio:
  - 1000 imp/kWh with CT ratio in range 1...4
  - 200 imp/kWh with CT ratio in range 5...24
  - 40 imp/kWh with CT ratio in range 25...124
  - 8 imp/kWh with CT ratio in range 125...624
  - 1 imp/kWh with CT ratio in range 625...3124
  - 0.1 imp/kWh with CT ratio in range 3125...10000

  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms

Tariff input

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 V_{AC-DC}

Metrological LED

- Meter constant: 10000 imp/kWh
- Pulse length: 10 ±2ms

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	INPUTS / OUTPUTS		COMMUNICATION PORT	OPTIONS			
	SELF-POWERED	TARIFF INPUT	S0 OUTPUT	IR	MID	MID S	NO MID	RESET
UEC6C-A (CTs not included)								
1114.0001.0001	3x230/400V 50Hz	1	2	•	•			
1114.0002.0001	3x230/400V 50Hz	1	2	•		•		
UEC6C-D (CTs not included)								
1114.0003.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•			•	
1114.0004.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•				•

BACK TO UEC SERIES

UEC80-D

80A three phase 3 or 4 wire programmable energy meter

- Direct connection up to 80 A
- Fully bi-directional 4-quadrant measurements for all energies and powers
- For 3 / 4 wire networks with balanced or unbalanced load
- Class B according to EN 50470-3 (MID)
- Tariff input
- 2 S0 outputs for energy pulse emission
- LCD display with 8 main digits
- IR optical port for communication with external modules
- Available with MID certification

TECHNICAL FEATURES

Power supply

- Power supplied from the voltage circuit
- Nominal measurement voltage ±20%
- Max consumption (for each phase): 7.5 VA - 0.5 W
- Nominal frequency: 50/60 Hz

Voltage range & frequency

- 3x230/400 ... 3x240/415 V 50/60 Hz

Current

- Starting current I_{st}: 20 mA
- Minimum current I_{min}: 250 mA
- Transitional current I_{tr}: 500 mA
- Reference current I_{ref} (I_b): 5 A
- Maximum current I_{max}: 80 A

Accuracy

- Active energy class 1 according to IEC/EN 62053-21 (NO MID)
- Active energy class B according to EN 50470-3 (MID)
- Reactive energy class 2 according to IEC/EN 62053-23

S0 outputs

- 2 passive optoisolated
- Maximum values: 250 V_{AC-DC} - 100 mA
- Meter constant: 100 imp/kWh
  The measuring unit (imp/kWh, imp/kvarh, imp/kVAh) changes according to the assigned counter (kWh, kvarh, kVAh)
- Pulse length: 50 ±2ms

Tariff input

- Active optoisolated
- Voltage range for tariff 2: 80 ... 276 V_{AC-DC}

Metrological LED

- Meter constant: 1000 imp/kWh
- Pulse length: 10 ±2ms

Environmental conditions

- Operating temperature: -25°C ... +55°C
- Storage temperature: -25°C ... +75°C
- Humidity: 80% max without condensation
- Protection degree: IP51 frontal part -IP20 terminals

ORDER CODE	VOLTAGE AND FREQUENCY INPUT	INPUTS / OUTPUTS		COMMUNICATION PORT	OPTIONS			
	SELF-POWERED	TARIFF INPUT	S0 OUTPUT	IR	MID	MID S	NO MID	RESET
UEC80-D								
1105.0013.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•	•			
1105.0014.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•		•		
1105.0015.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•			•	
1105.0016.0001	3x230/400V...3x240/415V 50/60Hz	1	2	•				•

BACK TO UEC SERIES

COMMUNICATION MODULES

CONNECTION BY OPTICAL PORT

RS485

M-BUS

LAN GATEWAY

1 OR 2 MODULES

RS485 MODBUS

M-BUS

LAN GATEWAY

- To be combined with UEC energy meters
- Easy to install
- Fast set up
- Extremely compact: 1 or 2 DIN modules
- Possibility of alternating use depending on the application
- Modbus RS485 communication
- M-Bus communication
- Ethernet communication

RS485 MODBUS

RS485 module allows to collect and transmit measurements data of the connected meter to a remote station. This data is transmitted on a RS485 line, using MODBUS RTU or ASCII protocols. MODBUS is the most popular communication protocol designed to allow industrial equipment to communicate. RS485 module is provided with a SET DEFAULT key to reset all communication parameters to factory default values. This function is very useful, i.e. in case of MODBUS logical address forgotten. Two LEDs on the RS485 module provide information about power supply status and communication status.

ORDER CODE	POWER SUPPLY	COMMUNICATION PORT				USER MANUAL LANGUAGES		
		RS485 MODBUS	M-BUS	ETHERNET	KNX	IT/EN	DE/EN	FR/EN
RS485 Modbus								
1112.0001.0001	230VCA ±20%	•				•		
1112.0005.0001	230VCA ±20%	•					•	
1112.0009.0001	230VCA ±20%	•						•

M-BUS

M-Bus module allows to collect and transmit measurements data of the connected meter to a remote station using M-Bus protocol. M-Bus (Meter-Bus) is a European standard for the remote reading of consumption meters. A free dedicated software is provided for module configuration and for displaying the detected measurements.

ORDER CODE	POWER SUPPLY	COMMUNICATION PORT				USER MANUAL LANGUAGES		
		RS485 MODBUS	M-BUS	ETHERNET	KNX	IT/EN	DE/EN	FR/EN
M-Bus								
1112.0002.0001	Through bus connection		•			•		
1112.0006.0001	Through bus connection		•				•	
1112.0010.0001	Through bus connection		•					•

LAN GATEWAY

LAN Gateway module allows to manage a single energy meter by any PC connected to Internet/LAN by means of a simple web browser. LAN Gateway module web pages are designed to be cross browser compliant: Internet Explorer, Mozilla Firefox, Apple Safari, Google Chrome, Opera, Netscape navigator are all supported web browsers. Another supported feature is MODBUS TCP protocol. MODBUS TCP is the most popular communication protocol designed to allow industrial equipment to communicate over a network. The use of MODBUS TCP provides a totally scaleable solution according to the needs.
LAN Gateway module is provided with a SET DEFAULT key to reset all communication parameters to factory default values. This function is very useful, i.e. in case of IP address forgotten.
Two LEDs on LAN Gateway module provide information about link activity and status.

ORDER CODE	POWER SUPPLY	COMMUNICATION PORT				USER MANUAL LANGUAGES		
		RS485 MODBUS	M-BUS	ETHERNET	KNX	IT/EN	DE/EN	FR/EN
Lan Gateway								
1112.0003.0001	230VCA ±20%			•		•		
1112.0007.0001	230VCA ±20%			•			•	
1112.0011.0001	230VCA ±20%			•				•

CUSTOMIZATION

All our products can be adapted, customized and developed according to specific project or market requirements.

We are able to support you from the first feasibility study, through the development of your type of personalization, up to its production and delivery, ensuring high standards of quality and flexibility.

STANDARD BRAND LABELLING

Examples of customizations:

- Front panel with customized specifications (logo, colors, buttons, etc)
- Packaging labels
- Communication parameters
- Tool Software
- Web Server
- Multilingual user manual + Quick Guide in 4 languages

ADVANCED BRAND LABELLING

Examples of customizations:

- Designing customized plastic parts (custom molds)
- Implementing customized firmware functions
- Hardware reengineering

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