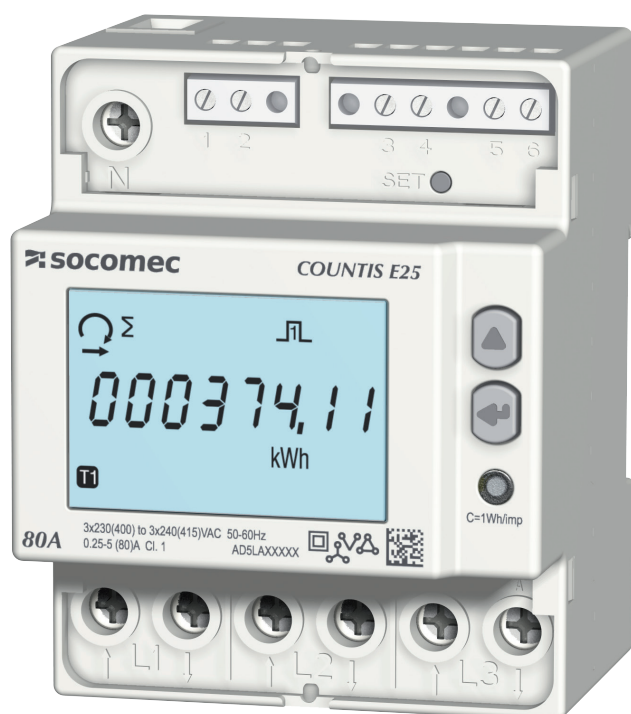


Three-phase energy meter
Direct - 80 A M-Bus

COUNTIS E25/E26



COUNTIS E25



COUNTIS E26 - MID



Socomec Resource Center
To download, brochures, catalogues
and technical manuals.

1. DOCUMENTATION	3
2. HAZARDS AND WARNINGS	4
2.1. Risk of electrocution, burns or explosion	4
2.2. Risk of damaging the unit	4
2.3. Responsibility	4
3. PRELIMINARY OPERATIONS	5
4. INTRODUCTION	6
4.1. Introducing the COUNTIS E25/E26	6
4.2. Functions	6
4.3. Front panels	6
4.4. LCD display	7
4.5. Dimensions	7
4.6. Electrical values measured	8
4.6.1. Measurements	8
4.6.2. Energy balance; definition	8
5. INSTALLATION	9
5.1. Recommendations and safety	9
5.2. DIN rail mounted	9
6. CONNECTION	10
6.1. Connecting the COUNTIS E25/E26	10
6.2. Connection to the electrical network and to the loads	10
7. MID COMPLIANCE	12
8. COMMUNICATION	13
8.1. General information	13
8.2. Recommendations	13
8.3. Communication structure	13
8.4. Communication tables	13
9. CONFIGURATION	14
9.1. Onscreen configuration	14
9.1.1. Detailed view of menu "SETUP 1"	15
9.1.2. View all of the menu "SETUP 2"	16
9.1.3. Detailed view of menu "SETUP 2"	17
9.1.4. Example: setting the communication address	18
10. USE	19
10.1. Detailed view of the menu for tariff 1, "Tar.1"	20
10.2. Detailed view of the menu for tariff 2, "Tar.2"	21
10.3. Detailed view of the total menu, "tot"	22
10.4. Detailed view of the menu showing partial readings and the energy balance "Par.b"	23
10.4.1. Starting up the partial energy meter	24
10.4.2. Stopping the partial energy meter	24
10.4.3. Resetting the partial energy meter to zero	24
10.5. Detailed view of the menu for realtime readings, "rt"	25
10.6. Detailed view of the menu "info"	26
11. DIAGNOSTICS MESSAGES	27
12. ASSISTANCE	27
13. CHARACTERISTICS	28
14. LIST OF ABBREVIATIONS	31

1. DOCUMENTATION

All documentation on the COUNTIS E25/E26 is available online:



2. HAZARDS AND WARNINGS

The term "device" used in the paragraphs below refers to the COUNTIS E25/E26.

The assembly, use, servicing and maintenance of this equipment must only be carried out by trained, qualified professionals.

SOCOMEK shall not be held responsible for failure to comply with the instructions in this manual.

2.1. Risk of electrocution, burns or explosion

- This device must only be installed and serviced by qualified personnel who have in-depth knowledge of installing, commissioning and operating the device and who have had appropriate training. He or she should have read and understood the various safety measures and warnings stated in the instructions.
- Before carrying out any work on the unit, switch off the voltage inputs.
- Always use an appropriate voltage detection device to confirm the absence of voltage.
- Replace all devices, doors and covers before turning on power to this equipment.
- Always power the device with the correct rated voltage.
- Install the unit following the recommended installation instructions and in a suitable electrical cabinet.

Failure to take these precautions could cause death or serious injuries.

2.2. Risk of damaging the unit

To ensure that the unit operates correctly, make sure that:

- The unit is correctly installed.
- There is a maximum voltage at the voltage input terminals of 288 VAC phase-neutral
- The network frequency indicated on the device is observed: 50 or 60 Hz.
- There is a maximum current of 80 A at the current input terminals (I1, I2 and I3).

Failure to respect these precautions could cause damage to the unit.

2.3. Responsibility

- Assembly, connection and use must be carried out in accordance with the installation standards currently in force.
- The unit must be installed in accordance with the rules given in this manual.
- Failure to observe the rules for installing this unit may compromise the device's intrinsic protection.
- The unit must be positioned within an installation which complies with the standards currently in force.
- Any cable which needs to be replaced may only be replaced with a cable having the correct rating.

3. PRELIMINARY OPERATIONS

To ensure the safety of staff and the equipment, it is vital to read and absorb the contents of these instructions thoroughly before commissioning.

Check the following points as soon as you receive the package containing the unit:

- The packaging is in good condition
- The unit has not been damaged during transportation
- The device reference number conforms to your order
- The package includes:
 - 1 device
 - 1 sealing kit (for COUNTIS E26)
 - 1 Quick Start guide

4. INTRODUCTION

4.1. Introducing the COUNTIS E25/E26

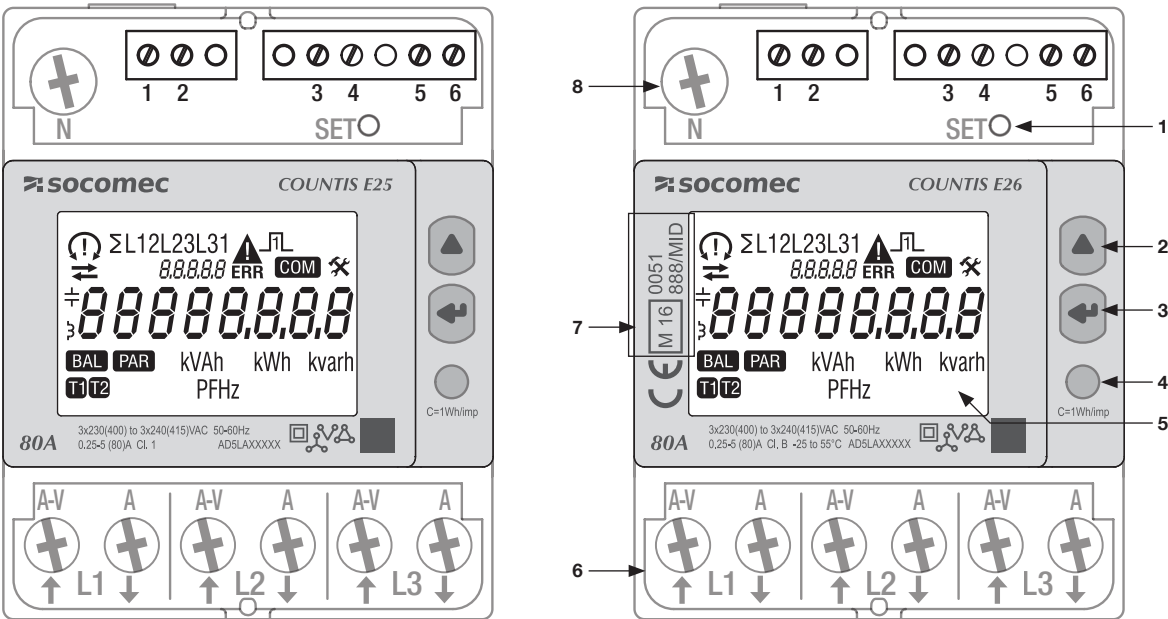
The COUNTIS E25 and E26 are modular active and reactive electrical energy meters that display consumed energy. They are designed for three-phase networks and allow a direct connection of up to 80 A. They are equipped with a M-Bus communication Bus.

4.2. Functions

- Measures and displays total and partial energy
- Dual tariff management: T1 / T2
- Electrical parameter measurements: I, U, V, f
- Power, power factor
- M-Bus communication
- MID version (according to reference)

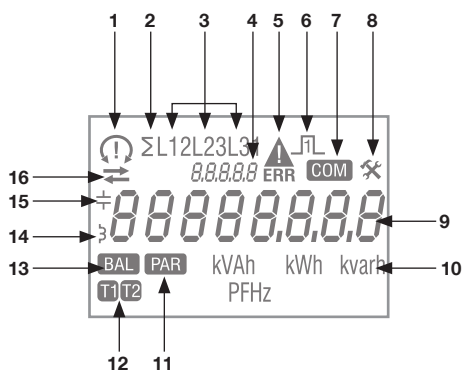
Description	Reference
COUNTIS E25	4850 3052
COUNTIS E26 - Version MID	4850 3053

4.3. Front panels



1. SET button
2. UP button
3. ENTER key
4. Metrological LED
5. LCD display
6. Three-phase network connection
7. Information relating to MID certification
8. Neutral connection

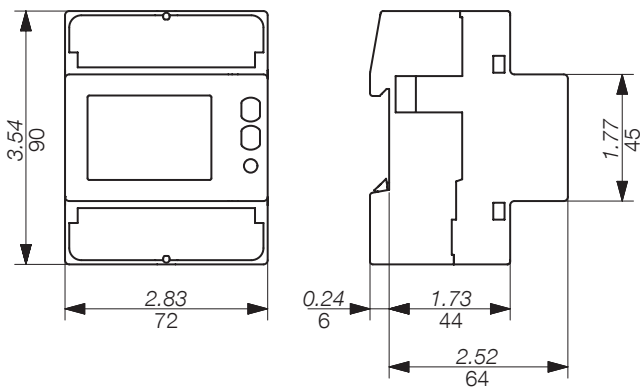
4.4. LCD display



1. Phase sequences:
 132
 123
 one or multiple phases are not detected
2. System value
3. Value by phase
4. Identification of current menu
5. Device malfunction. Replace the device
6. Active pulse output
7. Active communication
8. Setup menu
9. Main zone
10. Measurement Unit
11. Partial meters. Flashing = partial meter has stopped
12. Tariff display
13. Energy balance
14. Inductive value
15. Capacitive value
16. Imported (→) or exported energy or power (←)

4.5. Dimensions

Dimensions: in/mm



4.6. Electrical values measured

4.6.1. Measurements

Settings vary by model.

Realtime values	Symbol	Measurement Unit	LCD display	Via communication
Neutral voltage	$\sum V$	V	●	
	V1, V2, V3			●
Phase to phase voltage	$\sum U$		●	
	U12, U23, U31			●
Current	$\sum I$	A	●	
	I1, I2, I3			●
Power factor	$\sum PF$		●	●
	PF1, PF2, PF3			●
Apparent power	$\sum S$, S1, S2, S3	kVA	●	●
Active power	$\sum P$, P1, P2, P3	kW	●	●
Reactive power	$\sum Q$, Q1, Q2, Q3	kVAr	●	●
Frequency	f	Hz	●	
Phase sequence	CW / CCW		●	
Direction of current	↻		●	
Logged data				
Total active and reactive energy	Ea, Er ($\sum$)	kWh, kvarh	●	●
	Ea, Er (by phase)		●	
Total apparent energy	Eap ($\sum$)	kVAh	●	
Total reactive, inductive and capacitive energy	Er ($\sum$)	kvarh	●	
Total active, reactive and apparent energy for each tariff (T1/T2)	Ea, Er ($\sum$)	kWh, kvarh	●	●
Total reactive, inductive and capacitive energy for each tariff (T1/T2)	Er ($\sum$)	kvarh	●	
Active, partial energy for each tariff (T1/T2)	Ea ($\sum$)	kWh	●	
Active, reactive and apparent partial energy	Ea, Er	kWh, kvarh	●	●
	Eap ($\sum$)	kVAh	●	
Energy balance	$\sum$	kWh, kvarh	●	
Miscellaneous				
Current tariff	T	1/2	●	●
Partial meters	BY	START/STOP	●	
State of the pulse output	⏏	Active/Not active	●	

NOTE: $\sum$ is the sum of the meter readings for each phase, divided by 3.

NOTE: If you have a 3-wire connection the following voltage readings are not available; phase-neutral, neutral current, phase power, power factor for each phase and power for each phase.

4.6.2. Energy balance; definition

	Formula
kWh	(+kWh T1) – (-kWh T1) + (+kWh T2) – (-kWh T2)
kvarh	(+kvarh T1) – (-kvarh T1) + (+kvarh T2) – (-kvarh T2)

5. INSTALLATION

The paragraphs below describe how to install the device.

5.1. Recommendations and safety

Refer to the safety instructions (section "2. Hazards and warnings", page 4)

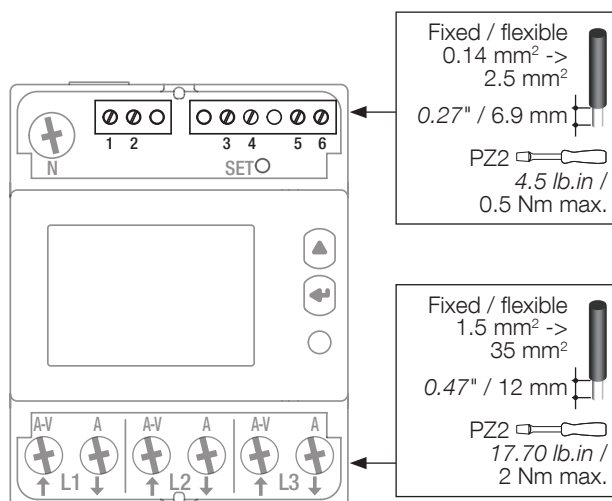
- Keep away from electromagnetic interference generator systems,
- Avoid vibrations with accelerations greater than 1 g for frequencies lower than 60 Hz.

5.2. DIN rail mounted

The COUNTIS E25/E26 can be mounted on a 35-mm DIN rail (EN 60715TM35). They must be used inside electrical cabinets.

6. CONNECTION

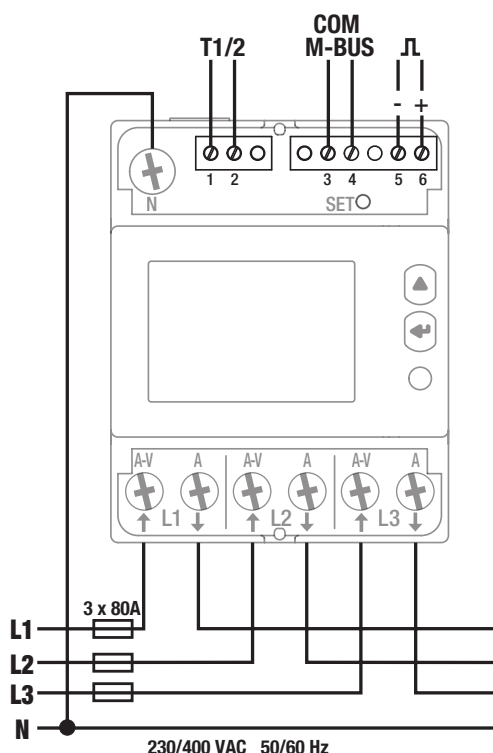
6.1. Connecting the COUNTIS E25/E26



6.2. Connection to the electrical network and to the loads

The COUNTIS E25/E26 are intended for three-phase networks with or without neutral.

3 phases, 4 wires, 3 currents



Price list

1-2: Switch tariffs:
0 VAC/DC -> Tariff 1
80-276 VAC/DC -> Tariff 2

M-Bus

3-4: M-Bus communication

Pulse output

5: -
6: +

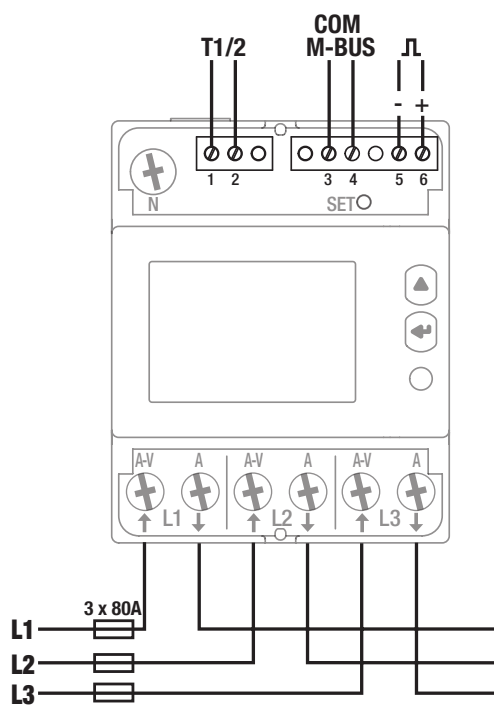
Optocoupler pulse outputs

Terminals 5-6 must be supplied with voltage between 5 and 27 VDC (27mA max)

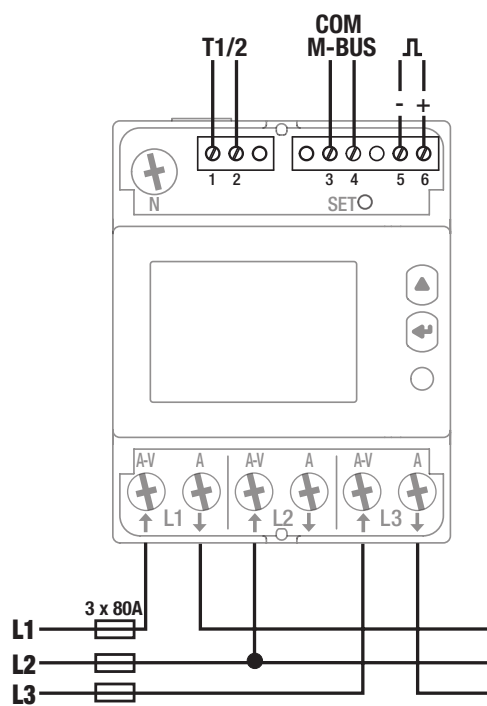
Mains

L1 A-V: Phase input
L1 A: Phase output
L2 A-V: Phase input
L2 A: Phase output
L3 A-V: Phase input
L3 A: Phase output
N: Neutral connection

3 phases, 3 wires, 3 currents



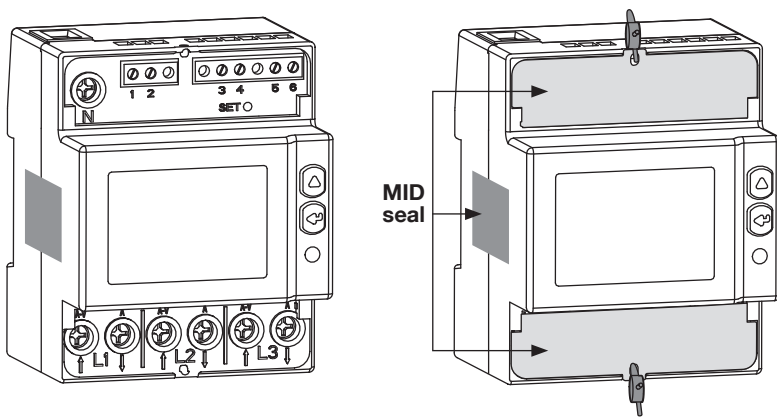
3 phases, 3 wires, 2 currents



7. MID COMPLIANCE

The following points must be taken into consideration to ensure that the device is used in compliance with directive MID 2014/32/EU:

- **Type of network**
COUNTIS E26 meters comply with the MID directive for connection to networks: 3P+N and 3P (see "6.2. Connection to the electrical network and to the loads", page 10)
- **Fitting terminal covers**
After connecting the device, ensure that the terminal covers are fitted properly and secured by the plastic seals provided with the device.
- **Locking the program button**
Make sure the SET program button is locked after fitting the terminal cover.
- **Communication**
The information provided via the M-Bus COM is transmitted for information only and has no legal value.
- **MID Declaration of Conformity**
The MID Declaration of Conformity is available on the website: www.socomec.com/en/countis-e2x



8. COMMUNICATION

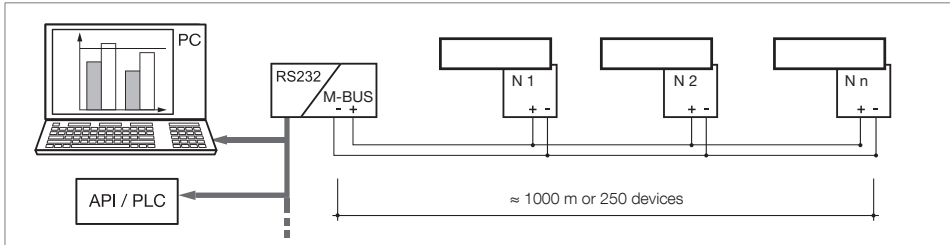
8.1. General information

In a standard configuration, an M-Bus connection is used to connect 250* devices to a PC or a controller over a distance of 1000 metres.

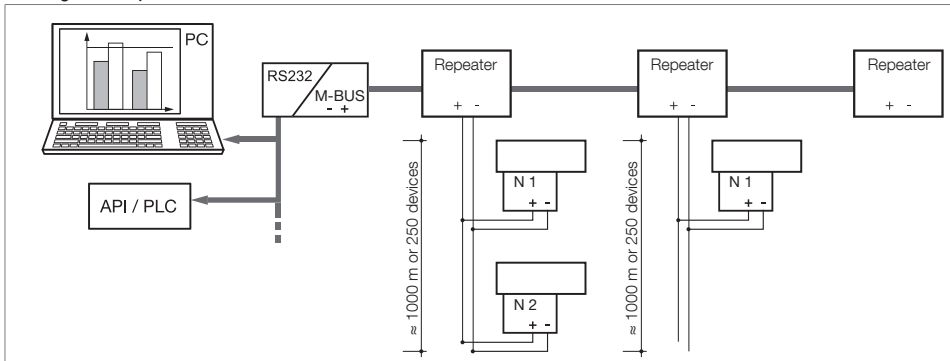
* depending on the M-BUS capacity

** depending on the number of devices and the communication speed

M-Bus cabling



Cabling with repeater



8.2. Recommendations

Use a non-shielded JYSTY Nx2x0.8 mm twisted pair (0.5 mm²).

If the distance of 1000 m is exceeded and/or the number of devices is greater than 250, add a repeater to allow additional devices to be connected.

If there are more than 250 units, use the secondary address only.

8.3. Communication structure

The device communicates via an M-Bus protocol which involves a dialogue in accordance with a master/slave structure. The COUNTIS units (slaves) are compatible with the 2 primary and secondary addressing modes. You can configure the primary and secondary addressing modes via the device's interface.

8.4. Communication tables

The communication tables are available online:



9. CONFIGURATION

The device can be configured directly from the COUNTIS E25/E26 screen in programming mode or via the communication link. The paragraphs below describe configuring using the screen.

9.1. Onscreen configuration

From the screen, go to programming mode to change your communication settings. How to browse through the programming mode is described in the following stages:

Function	Where	Buttons	Press
Switch menus	Every page with the exception of SETUP 1/2		Realtime
Switch pages within a menu	Every page within a menu		Realtime
Go to menu SETUP 2	Menu page SETUP		> 3 sec
Go to menu SETUP 1	Every page with the exception of SETUP 1	SET	> 3 sec
Change a value/digit	Pages SETUP 1/2		Realtime
Confirm a value/digit	Pages SETUP 1/2		Realtime
Exit menu SETUP 1/2	Menu SETUP 1/2		> 3 sec
Start/stop the displayed partial meter	Partial meter menu	 + 	Realtime
Reset the displayed partial meter to zero	Partial meter menu	 + 	> 3 sec
Display test	Every page with the exception of SETUP 1/2	 + 	> 10 sec

9.1.1. Detailed view of menu "SETUP 1"

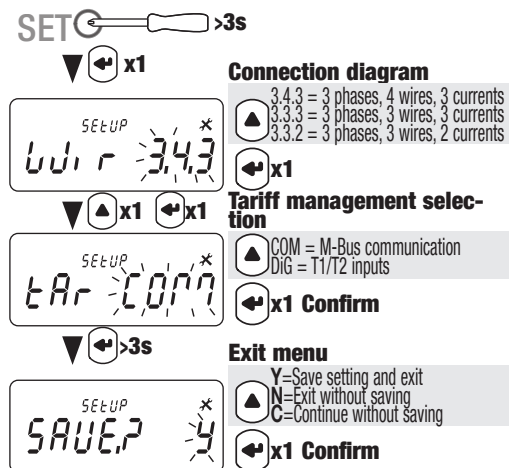
You can change the current tariff either via the communication link or via the device's T1/2 inputs.

In the "SETUP 1" menu you can select the communication type and tariff management mode.

Press SET for 3 seconds using a screwdriver to put the device into programming mode.

The default connection is: 3.4.3 = 3 phases, 4 wires, 3 currents. Other possible connections: 3.3.3 = 3 phases, 3 wires, 3 currents or 3.3.2 = 3 phases, 3 wires, 2 currents

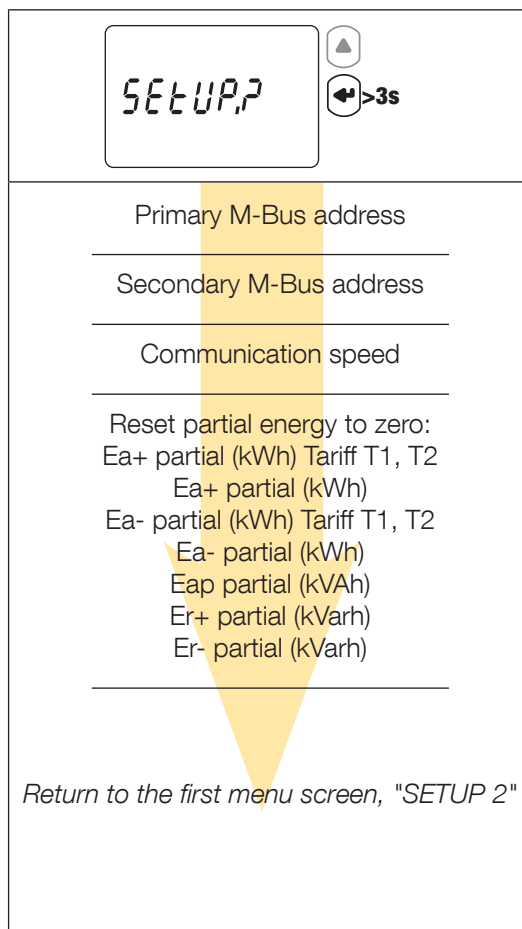
Press  to go to the two programming options: COM = M-Bus or DiG communication = T1/T2 inputs



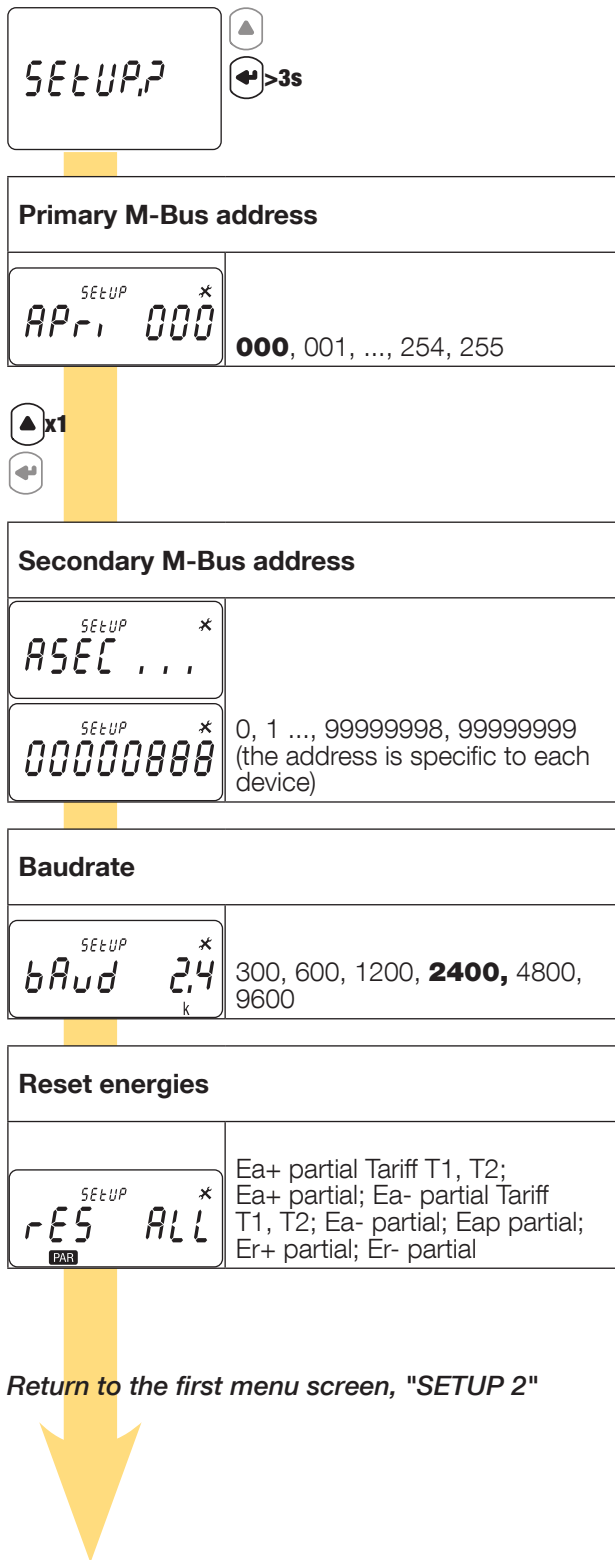
9.1.2. View all of the menu "SETUP 2"

In the SETUP 2 menu, press "" for 3 seconds to put the device into programming mode.

You can go to the different screens by pressing "":



9.1.3. Detailed view of menu "SETUP 2"

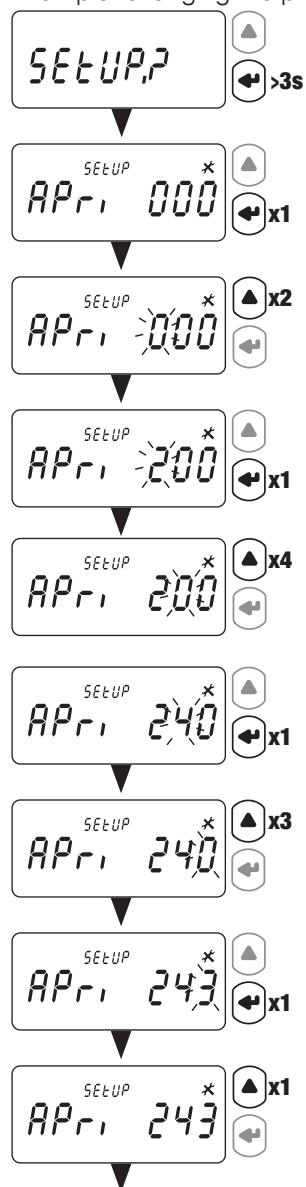


xx = default value

9.1.4. Example: setting the communication address

In "SETUP 2" mode (see page 14), go to the "APri primary address" screen

Example: changing the primary address to 243.



Secondary M-Bus
address
Communication speed
Partial Energies Reset

10. USE

Switch menus by pressing "". Press "" to see the electrical readings or information within a menu.

The menus and related measurements are described in the table below:

Tariff 1 (Tar.1)	Tariff 2 (Tar.2)	Total (tot)	Partial readings and energy balance (Par.b)	Realtime values (rt)	Information (inFo)
Tariff 1 - Imported and exported active energy	Tariff 2 - Imported and exported active energy	Total imported and exported active energy	Partial imported active energy by tariff	Active, apparent and reactive power	Metrological firmware version
Tariff 1 - Imported and exported inductive reactive energy	Tariff 2 - Imported and exported inductive reactive energy	Total apparent energy	Partial imported active energy	Phase/phase and phase/neutral voltage	Non-metrological firmware version
Tariff 1 - Imported and exported capacitive reactive energy	Tariff 2 - Imported and exported capacitive reactive energy	Total imported and exported inductive reactive energy	Partial exported active energy by tariff	Three-phase current	Checksum of metrological firmware
Tariff 1 - Imported and exported reactive energy	Tariff 2 - Imported and exported reactive energy	Total imported and exported capacitive reactive energy	Partial exported active energy	Power factor	Checksum of non-metrological firmware
Go back to first screen, menu "Tar.1"	Go back to first screen, menu "Tar.2"	Total imported and exported reactive energy	Partial apparent energy	Frequency	Installed communication port
		Go back to first screen, menu "tot"	Partial imported and exported reactive energy	Go back to first screen, menu "rt"	Go back to first screen, menu "info"
			Active energy balance		
			Reactive energy balance		
			Go back to first screen, menu "Par.b"		

10.1. Detailed view of the menu for tariff 1, "Tar.1"

Imported active energy, tariff 1

Ω^Σ

$t_{Rr,1}$

000006.22

kWh

Exported active energy, tariff 1

Ω^Σ

$t_{Rr,1}$

000006.22

kWh

Imported inductive reactive energy, tariff 1

Ω^Σ

$t_{Rr,1}$

000006.22

kvarh

Exported inductive reactive energy, tariff 1

Ω^Σ

$t_{Rr,1}$

000006.22

kvarh

Imported capacitive reactive energy, tariff 1

Ω^Σ

$t_{Rr,1}$

000006.22

kvarh

Exported capacitive reactive energy, tariff 1

Ω^Σ

$t_{Rr,1}$

000006.22

kvarh

Imported reactive energy, tariff 1

Ω^Σ

$t_{Rr,1}$

000006.22

kvarh

Exported reactive energy, tariff 1

Ω^Σ

$t_{Rr,1}$

000006.22

kvarh

Go back to first screen, menu "Tar.1"

10.2. Detailed view of the menu for tariff 2, "Tar.2"

Imported active energy, tariff 2	
$\sum$ 000006.22 kWh	

Exported active energy, tariff 2	
$\sum$ 000006.22 kWh	

Imported inductive reactive energy, tariff 2	
$\sum$ 000006.22 kvarh	

Exported inductive reactive energy, tariff 2	
$\sum$ 000006.22 kvarh	

Imported capacitive reactive energy, tariff 2	
$\sum$ 000006.22 kvarh	

Exported capacitive reactive energy, tariff 2	
$\sum$ 000006.22 kvarh	

Imported reactive energy, tariff 2	
$\sum$ 000006.22 kvarh	

Exported reactive energy, tariff 2	
$\sum$ 000006.22 kvarh	

Go back to first screen, menu "Tar.2"

10.3. Detailed view of the total menu, "tot"

Total imported active energy	
Ω^{L1}_{tot} 0000008.32 kWh	L1, L2, L3, Σ

Total exported active energy	
Ω^{L1} Σ^{tot} 0000008.32 kWh	L1, L2, L3, Σ

Total apparent energy	
$\bigcirc^{\Sigma}$ tot 0000008.32 kVAh	Σ

Total imported inductive reactive energy	
Q_{tot}^{Σ} 0000008.32 kvarh	Σ

Total exported inductive reactive energy

Q^{Σ}_{tot}

0000008.32

kvarh

Σ

Total imported capacitive reactive energy

0000008.32 kvarh

Σ

Total exported capacitive reactive energy

Σ

0000008.32

kvarh

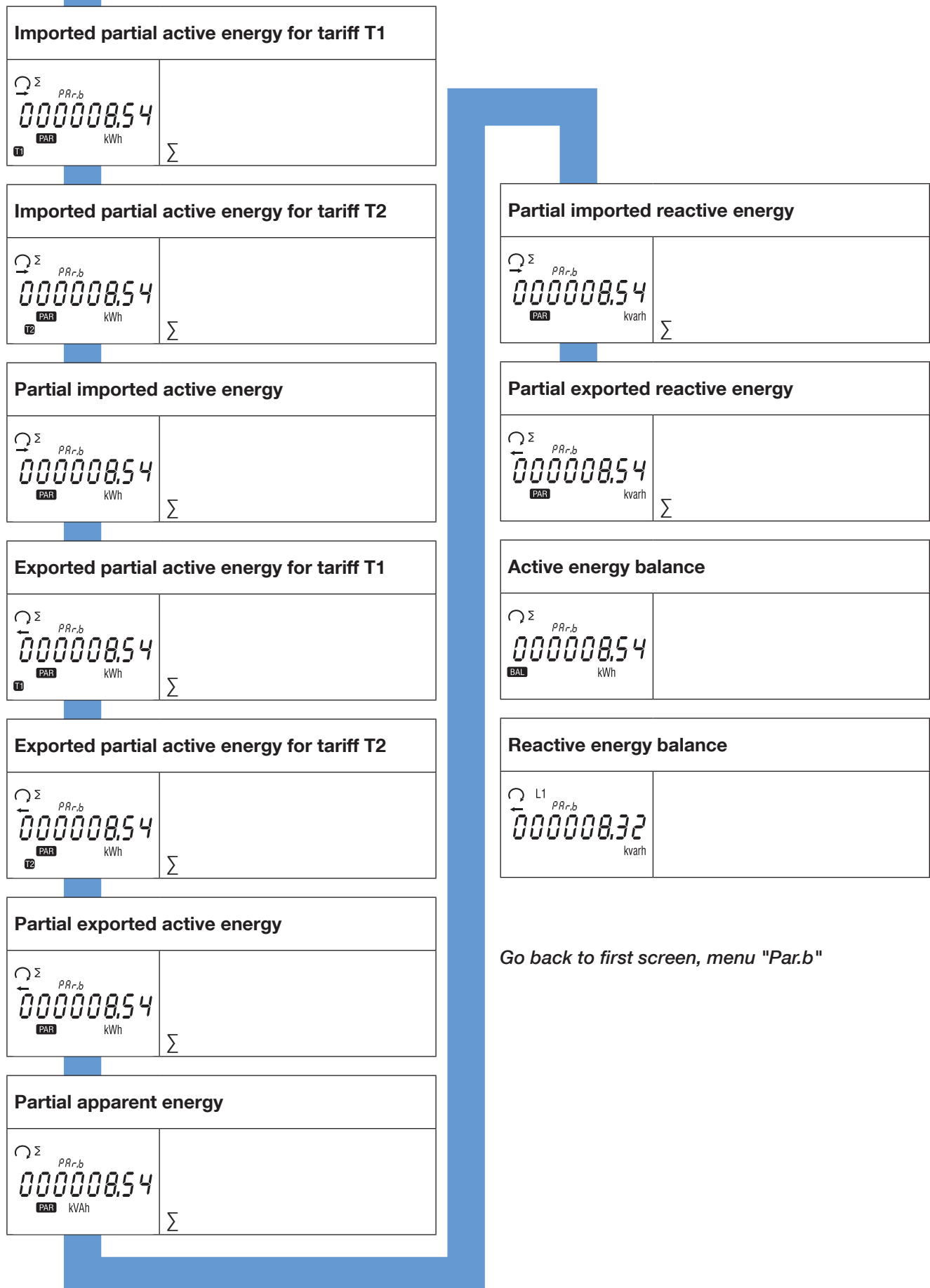
Σ

Total imported reactive energy	
Ω^{L1}_{tot} 0000008.32 kvarh	L1, L2, L3, Σ

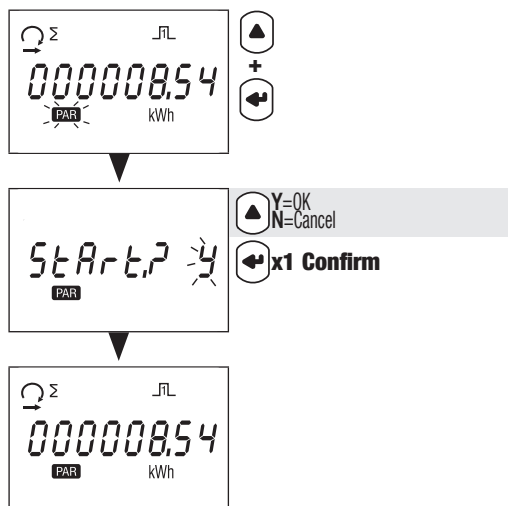
Total exported reactive energy	
Q_{tot}^{L1}  kvarh	$L1, L2, L3, \Sigma$

Go back to first screen, menu "tot"

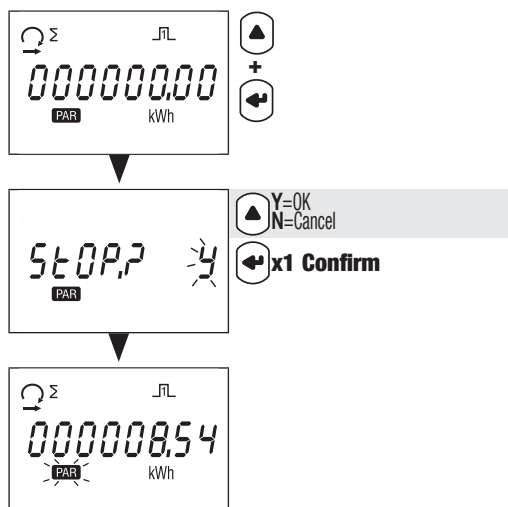
10.4. Detailed view of the menu showing partial readings and the energy balance "Par.b"



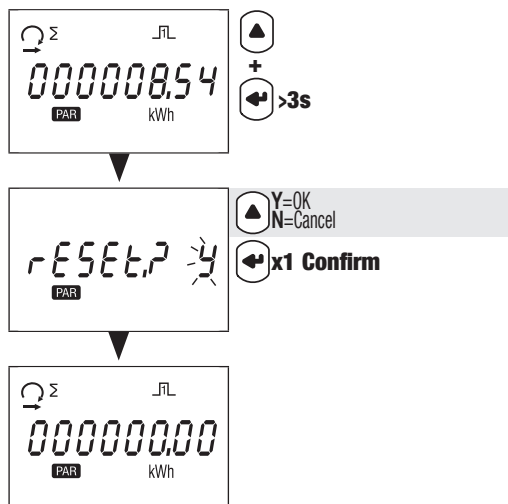
10.4.1. Starting up the partial energy meter



10.4.2. Stopping the partial energy meter



10.4.3. Resetting the partial energy meter to zero



10.5. Detailed view of the menu for realtime readings, "rt"

Realtime active power	
$\odot$ $L1$ rt 11.50 kW	L1, L2, L3, Σ

Realtime apparent power	
$\odot$ $L1$ rt 11.50 kVA	L1, L2, L3, Σ

Realtime reactive power	
$\odot$ $L1$ rt 11.50 kvar	L1, L2, L3, Σ

Realtime phase/phase voltage	
$\odot$ $\Sigma L12$ 23 31 rt 151.3 V	Σ

Realtime phase/neutral voltage	
$\odot$ $\Sigma L1$ 2 3 rt 075.7 V	Σ

Realtime three-phase current	
$\odot$ Σ rt 69.67 A	Σ

Realtime power factor	
$\odot$ Σ rt 0.800 PF	Σ

Frequency	
$\odot$ Σ rt 50.00 Hz	

Go back to first screen, menu "rt"

10.6. Detailed view of the menu "info"

Metrological firmware version	
info rel 1.22	

Non-metrological firmware version	
info rel 3.02	

Checksum of metrological firmware	
info CS1 7A37	

Checksum of non-metrological firmware	
info CS2 Fb7d	

Installed communication port	
info RS-485	

Connection type	
info 3.4.3	3 phases, 4 wires, 3 currents 3 phases, 3 wires, 3 currents 3 phases, 3 wires, 2 currents



Go back to first screen, menu "info"

11. DIAGNOSTICS MESSAGES

The following messages appear if there are connection or malfunction errors.

11.1. Missing phases



- If one or several phases are not detected, the exclamation point  flashes on the screen. Example: phase not detected

11.2. Reversed phases



- If a 123 phase sequence is detected, the  symbol appears.
- If a 132 phase sequence is detected, the  symbol appears.

11.3. Malfunction



- If you see this message, the meter has malfunctioned and must be replaced.

12. ASSISTANCE

Causes	Solutions
Device not working	Check the neutral and phase 1 cable connections.
Phases not shown onscreen	Check the connections
Phases reversed onscreen	Check the network configuration
Error message	Check the meter is working OK

13. CHARACTERISTICS

GENERAL FEATURES	
Compliant with	European EMC Directive No. 2014/30/EU dated 26/02/2014 LV Directive No. 2014/35/EU dated 26/02/2014 Measuring Instrument Directive MID No. 2014/32/EU dated 26/02/2014 EN50470-1/-3 IEC 62053-21/-23
Frequency	50 and 60 Hz (± 1 Hz)
Power supply	Self-supplied
Rated dissipated power (Wmax.)	7.5VA (0.5W)
FEATURES	
Three-phase connectivity	3/4 wires 3x230/400V to 3x240/415V
Stores energy readings and settings	In FRAM memory
Identifies display of tariffs	T1 and T2
CURRENT MEASUREMENTS	
Type	Three-phase - direct 80 A
Input consumption	0.5VA max. per phase
Startup current (Ist)	20mA
Minimum current (Imin)	0.25A
Transition current (Itr)	0.5A
Reference current (Iref)	5A
Permanent overload (Imax)	80A
Intermittent overload	30 Imax for 1/2 cycle
OVERLOAD CAPACITY	
DC voltage Un	288 VAC
Realtime voltage Un (1 s)	300 VAC
DC current Imax	80 A
Realtime current Imax	30 Imax for 1/2 cycle
VOLTAGE MEASUREMENTS	
Range of measurement	230-240V $\pm 20\%$
Consumption	3.5VA max. per phase
Permanent overload	290V phase-neutral / 500V phase-phase
FREQUENCY MEASUREMENT	
Frequency measurement	45-65 Hz
ENERGY MEASUREMENT	
Active	Yes
Reactive	Yes
Total and partial reading	Yes
MID metering	Bidirectional with three-phase
Resolution	10 Wh, 10 varh
ENERGY ACCURACY	
Active energy Ea+	Class B (EN 50470-3) E26 Class 1 (EN 62053-21)
Reactive energy Er+	Class 2 (EN 62053-23)

TARIFF for Ea+	
Tariff management	Yes (via input and communication)
Number of tariffs managed	2
Tariff input	Yes
Input type	Opto-isolated
Voltage	0V --> Tariff 1 80-276 VAC-DC --> Tariff 2
METROLOGICAL LED (Ea+, Ea-)	
Pulse value	1000 pulses / kWh
Colour	Red
PULSE OUTPUT	
Type	Opto-isolated - 5 ... 27VDC 27mA according to EN 62053-31
Pulse weight	100 Wh
DISPLAY	
Type	8-digit LCD with backlight
Refresh time	1 s
Backlight activation time	10 s
Active energy: 1 display, 8-digit	000000.01 - 999999.99 kWh
Reactive energy: 1 display, 8-digit	000000.01 - 999999.99 kvarh
Apparent energy: 1 display, 8-digit	000000.01 - 999999.99 kVAh
Realtime active power: 1 display, 4-digit	00.00 - 99.99 kW
Realtime reactive power: 1 display, 4-digit	00.00 - 99.99 kvar
Realtime reactive power: 1 display, 4-digit	00.00 ... 99.99 kVA
Realtime voltage: 1 display, 4-digit	000.0 ... 999.9 V
Realtime current: 1 display, 4-digit	00.00 ... 99.99 A
Power factor: 1 display, 4-digit	0.001-1.000
Frequency: 1 display, 4-digit	45.00-65.00 Hz
COMMUNICATION	
M-Bus	2 wires + shielding/ half duplex
Protocol	M-Bus
Baudrate	300, 600, 1200, 2400, 4800, 9600 bps
Load unit	1
SAVING	
Energy registers	In FRAM memory
ENVIRONMENTAL CONDITIONS	
Mechanical environment	M1
Electromagnetic environment	E2
Operating temperature range	-25°C to +55°C
Storage temperature	-25°C to 75°C
Humidity	≤ 80%
Installation	Internal (box/cabinet)
Vibrations	±0.075 mm

HOUSING	
Dimensions W x H x D (mm)	Modular - width of 4 modules (DIN 43880) 72 x 90 x 64
Mounting	On DIN rail (EN 60715)
Connection capacity, tightening torque	See chapter "6. Connection", page 10
Protection index	Front: IP51 - casing: IP20
Insulation class	Class II (EN 50470-1)
Weight	440 g

14. LIST OF ABBREVIATIONS

info	Menu information
rEL1	Metrological firmware version
rEL2	Non-metrological firmware version
CS1	Checksum of metrological firmware
CS2	Checksum of non-metrological firmware
tAr.1	Menu for Tariff 1
tAr.2	Menu for Tariff 2
tot	Total menu
PAR.b	Partial readings and energy balance menu
rt	Realtime values menu
SEtuP.2	Setup 2 menu
Addr	Slave address
bAud	Communication speed in bauds (bits per second)
PrtY	Communication frame parity
n	No parity
o	Off parity
E	Even parity
StoP	Frame stop bit
1	1 stop bit
2	2 stop bits
rES	Reset partial energy
ConF?	Confirm selection
Y	Save and exit
N	Exit without saving
C	Continue without saving
tAr	Tariff management option
COM	Tariff management via communication
diG	Tariff management via device input

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