



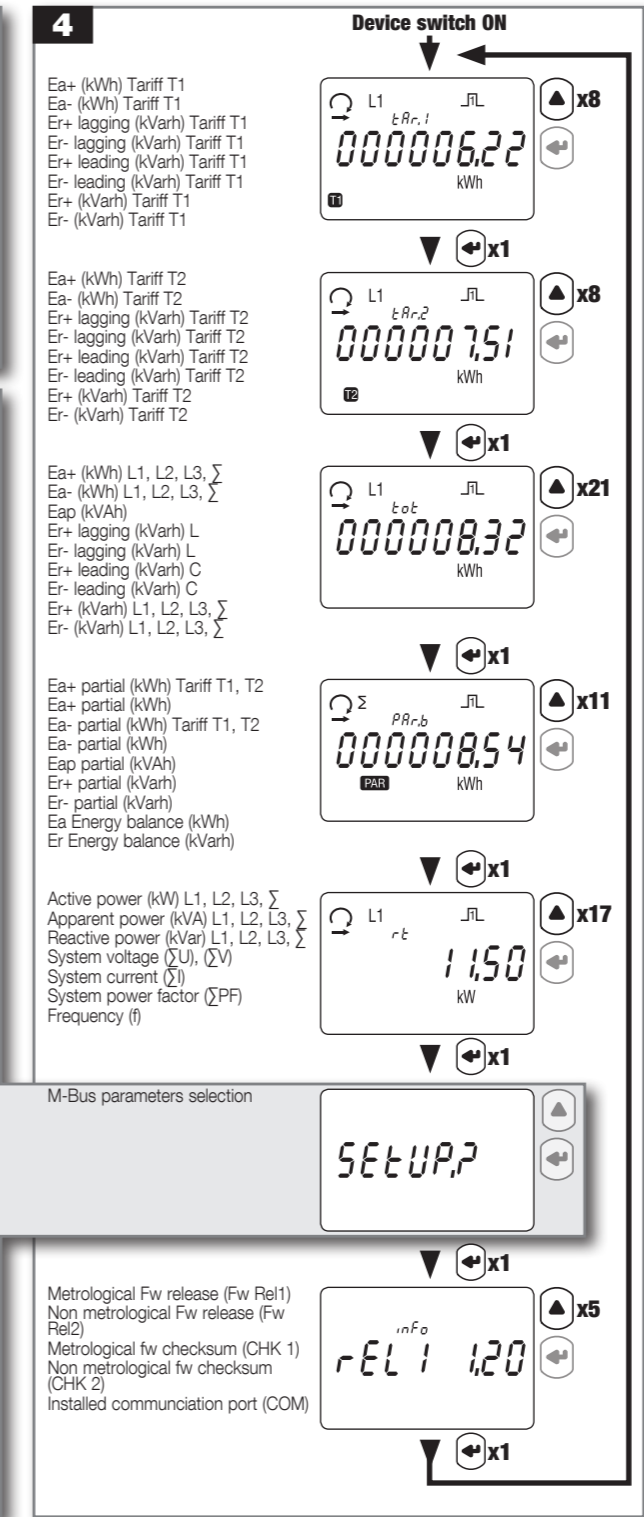
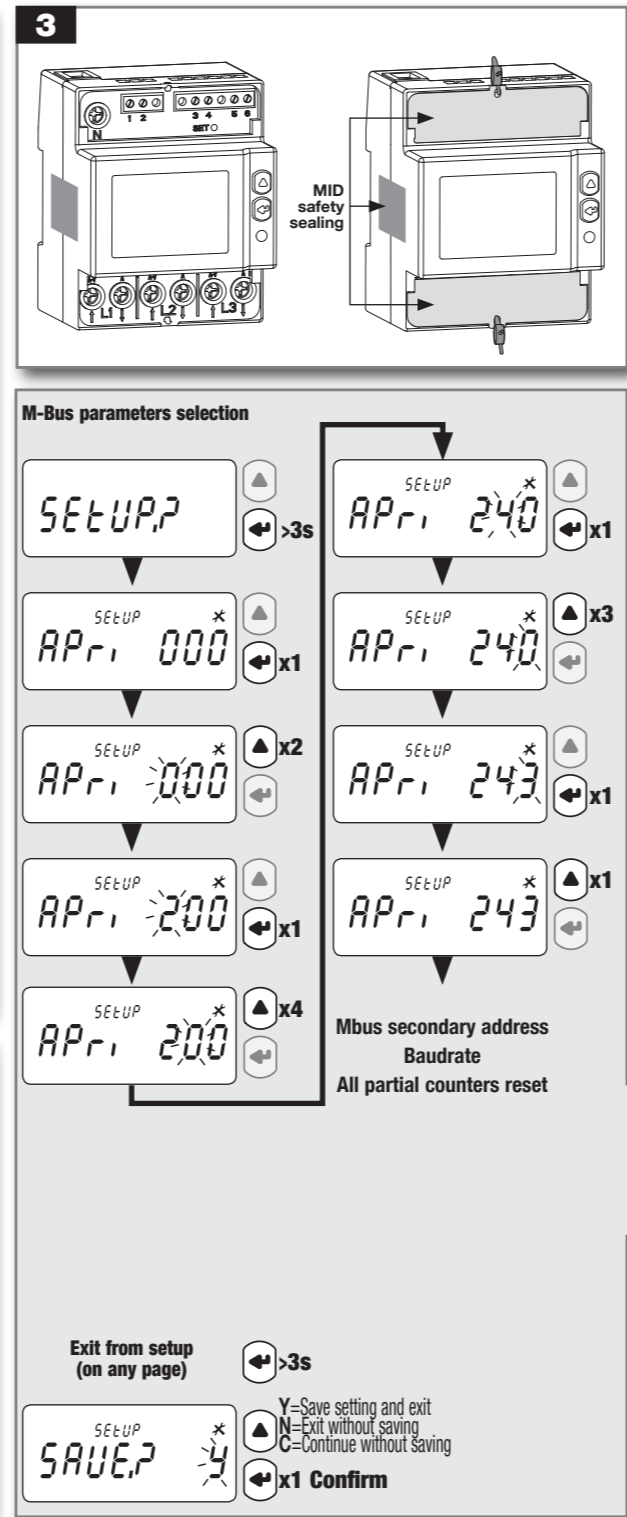
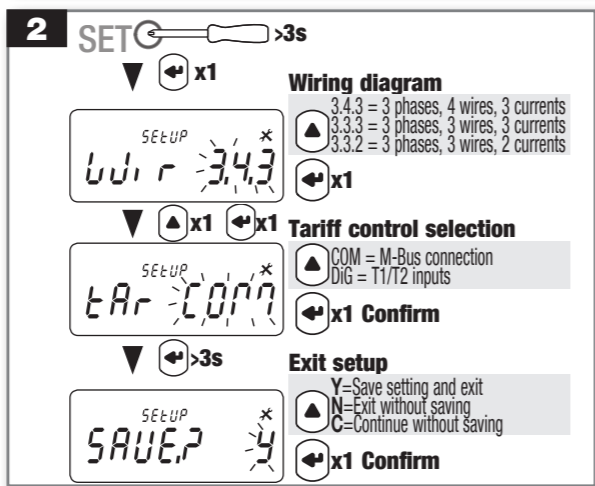
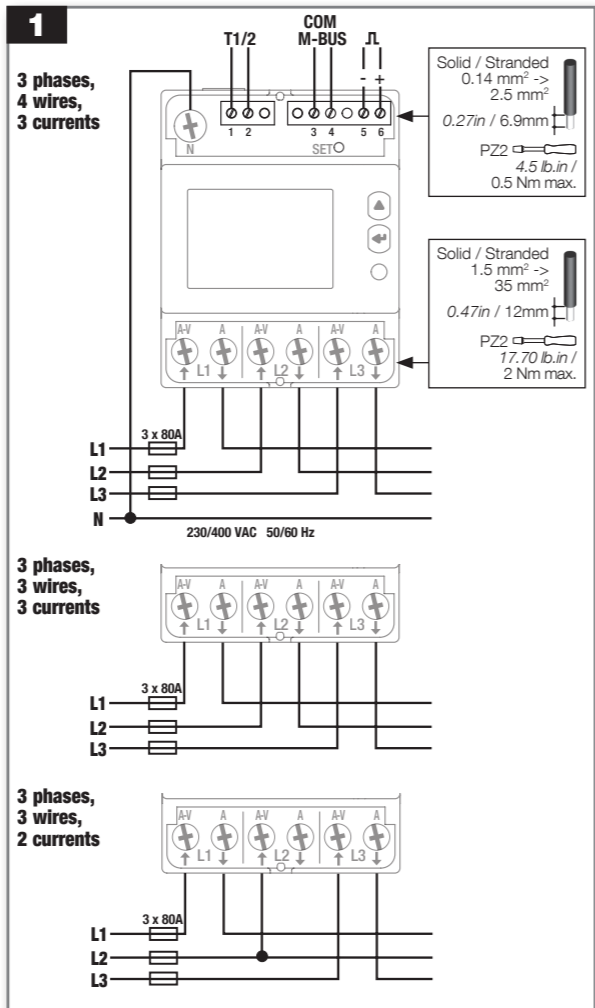
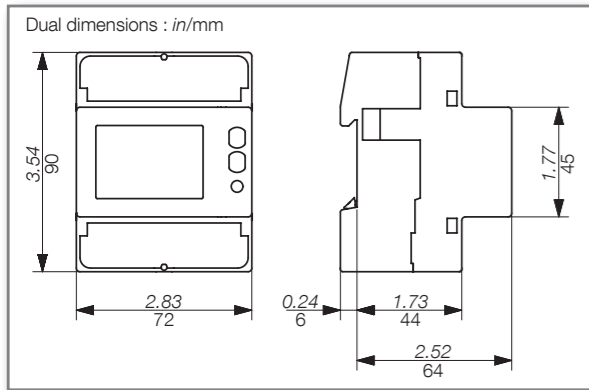
**Measurements**  
The parameters are available according to the device model.

Instantaneous values	Symbol	Measure unit	Display	Com.
Phase to Neutral voltages	$\sum V$ V1, V2, V3	V	●	●
Phase to Phase voltages	$\sum U$ U12, U23, U31			
Current	$\sum I$ I1, I2, I3	A	●	●
Power factor	$\sum PF$ PF1, PF2, PF3			
Apparent power	$\sum S$ , S1, S2, S3	kVA	●	●
Active power	$\sum P$ , P1, P2, P3			
Reactive power	$\sum Q$ , Q1, Q2, Q3	kvar	●	●
Frequency	f			
Phase sequence	CW / CCW		●	
Power direction	↔		●	
Recorded data				
Total energy counters	Ea, Er ( $\sum$ ) Ea, Er (per phase)	kWh, kvarh	●	●
Total apparent energy	Eap ( $\sum$ )			
Total ind. and cap. reactive energy	Er ( $\sum$ )	kvarh	●	
T1/T2 tariff energy counters	Ea, Er ( $\sum$ )	kWh, kvarh	●	●
T1/T2 tariff ind. and cap. reactive energy	Er ( $\sum$ )	kvarh	●	
T1/T2 tariff resettable partial energy counters	Ea ( $\sum$ )	kWh	●	
Resettable partial energy counters	Ea, Er Eap ( $\sum$ )	kWh, kvarh kVAh	●	●
Energy balance	$\sum$	kWh, kvarh	●	
Other information	Symbol	Value/status	Display	Com.
Present tariff	T	1/2	●	●
Partial counters	PAR	START/ STOP	●	
S0 output status	$\square$	Active/Not active	●	

NOTE: in case of 3 wire connection, phase-neutral voltages, neutral current, phase powers, phase power factors parameters and all phase counters are not available.

**Energy balance values calculation**

Energy balance	Formula
kWh	(+kWh T1) - (-kWh T1) + (+kWh T2) - (-kWh T2)
kvarh	(+kvarh T1) - (-kvarh T1) + (+kvarh T2) - (-kvarh T2)



**Technical characteristics**  
Data in compliance with EN 50470-1, EN 50470-3

General	4 modules DIN 43880 DIN rail EN 60715
Operating features	3/4 wires 3x 230/400V to 3x 240/415V FRAM T1 and T2
Supply	Autosupplied 184 ... 288 VAC 45 ... 65 Hz 3.5VA - 1W
Overload capability	288 VAC 300 VAC 80 A 30 Imax for 1/2c
Display	LCD 8 digits with backlight 000000.00 ... 999999.99 kWh 000000.00 ... 999999.99 kvarh 000000.00 ... 999999.99 kVAh 00.00 ... 99.99 kWh 00.00 ... 99.99 kvar 00.00 ... 99.99 kVA 00.0 ... 999.9 V 00.00 ... 99.99 A 0.000 ... 1.000 45.00 ... 65.00 Hz 1 s
Measuring accuracy	class B acc. to EN 50470-3 class 1 acc. to EN 62053-21 class 2 acc. to EN 62053-23
Measuring input	230 V phase to N or 400 V phase to phase 5 A 0.25 A 0.020 ... 80 A 50/60 Hz ± 1 Hz 20 mA
Optical interfaces (LED)	1 Wh/imp
S0 Output	Optoisolated - 5 to 27VDC 27mA acc. to EN 62053-31 100 Wh
Safety	Indoor meter 2 300 VAC 4 kV 6 kV 1.2/50µs class II UL 94 class V0
Embedded communication	300, 600, 1200, 2400, 4800, 9600 bps SELV Circuit
Environmental conditions	M1 E2 -25 ... +55 °C -25 ... +75 °C ≤80 % ±0.075 mm IP51(*)/IP20

(\* ) For the installation in a cabinet at least with IP51 protection.