

**Single-phase Bi-directional energy meters with backlit LCD display
Multi-function and MID certified**

**Type 7M.24.8.230.0010
S0 pulse output**

**Type 7M.24.8.230.0110 (with NFC)
S0 pulse output, IR communication port
NFC technology allows reading the measured energy even in the absence of mains voltage and to program and customize the counters via smartphone**

- Display of total or partial (resettable) consumption: kWh, kVAh, kvarh
- 2 active energy MID counters + 2 reactive energy nationally certified counters
- 8 resettable counters
- Scroll to view the following instantaneous values: V, A, PF, kW, kVA, kvar, Hz, THD V, THD A, phase angle and direction of power flow
- 7 digit backlit LCD display
- Multi-function touch button
- Active energy accuracy Class B according to EN 50470-3 (MID)
- Reactive energy accuracy Class 2 to EN 62053-23
- S0 pulse output for remote energy monitoring according to EN 62053-31
- Sealable tamperproof terminal shield
- Protection category II
- 35 mm rail (EN 60715) mount

NEW 7M.24.8.230.0010

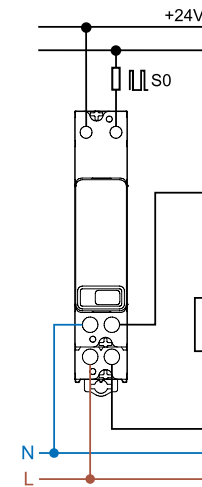
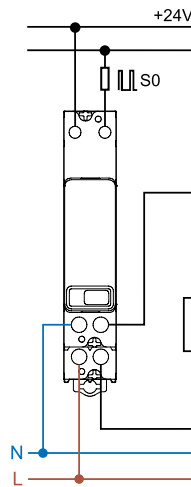


- Reference current 5 A (40 A Maximum)
- S0 pulse output
- 1-phase 230 V 50/60 Hz
- MID certified

NEW 7M.24.8.230.0110



- Reference current 5 A (40 A Maximum)
- S0 pulse output, IR communication port and NFC
- 1-phase 230 V 50/60 Hz
- MID certified



For outline drawing see page 14

Specification

Reference/Maximum current I_n/I_{max}	A	5/40	5/40
Starting current I_{st}	A	0.02	0.02
Minimum measured current I_{min}	A	0.25	0.25
Current range (within accuracy class)	A	0.5...40	0.5...40
Maximum peak current	A	1200 (10 ms)	1200 (10 ms)
Supply (& monitored) voltage U_N	V AC	230	230
Operating range		$(0.8...1.15)U_N$	$(0.8...1.15)U_N$
Frequency	Hz	50/60	50/60
Power consumption	W/VA	$\leq 0.5/1.5$	$\leq 0.5/1.5$
Display		LCD	LCD
Max. totalising count/Min. increment	kWh	999 999.9/0.1	999 999.9/0.1
LED pulses per kWh		1000	1000
LED pulse length	ms	4 ± 0.5	4 ± 0.5

Output specification (S0+/S0-)

Number/Type		1 opto-isolated output	1 opto-isolated output
Voltage range/Maximum current (conforming to EN 62053-1)	V DC/mA	3.3...27/1...27	3.3...27/1...27
Pulses per kWh	Imp/kWh	1000	1000
Pulse length	ms	32 ± 2	32 ± 2
Maximum cable length	m	1000	1000

Technical data

Accuracy class IEC EN 50470-3 / IEC EN 62053-23		1/2	1/2
Ambient temperature (Within accuracy class) °C		-25...+55	-25...+55
Protective class		II	II
Protection category: Housing/terminals		IP 50/IP 20	IP 50/IP 20

Approvals (according to type)

