

DELTAsingle Electricity meter



DELTAsingle is an active energy, single phase meter for direct connection up to 80A. The meter is designed for DIN rail mounting and comes with terminals suitable for revenue metering installation. The internal clock can handle up to 4 tariffs.

The DELTAsingle is ideal for use in shopping malls, apartments and other locations where a compact single phase meter is needed.

Key features:

- Direct connection 80 A
- Internal clock
- Up to 4 tariffs
- IR port
- Pulse output (optional)

The LCD display includes communication indicator, load indicator and tariff indicator

Ordering details				
No. of Tariffs	Pulse output	Type	Order Code	Weight/kg
1	No	FBU11200	2CMA180891R1000	0.150
1	Yes	FBB11200	2CMA180892R1000	0.150
2	No	FBU11205	2CMA180893R1000	0.150
2	Yes	FBB11205	2CMA180894R1000	0.150
4	No	FBU11206	2CMA180895R1000	0.150
4	Yes	FBB11206	2CMA180896R1000	0.150
Accessories				
Serial Communication Adapter				
Modul	Protocol/Media	Type	Order code	Weight/kg
M-bus	M-Bus/M-bus - Twisted pair	CTM04000	2CMA137090R1000	0.090
RS232	M-Bus/RS232	CRM04000	2CMA137091R1000	0.090
Ethernet	M-bus over TCP or UDP/Ethernet	CEM05000	2CMA137099R1000	0.090
LON PLC A-band	LONWorks/Power Line	CAL06000	2CMA137100R1000	0.090
LON PLC C-band	LONWorks/Power Line	CCL06000	2CMA137103R1000	0.090



DELTAsingle

Technical Data

General Technical Data

Voltage (V)	
Voltage AC	230
Voltage range	-23% to + 20% of nominal voltage

Current (A)	
- base	10
- max	80
Starting current (mA)	25
Power consumption of current circuits (VA)	<1.3

General data	
Frequency (Hz)	50/60 (±5%)
Accuracy	Class B (cl 1)

Standards	IEC 62052-11, IEC 62053-21 (IEC 61036) EN 50470-1, EN50470-3
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Memory back-up	EEProm
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Clock back-up	Super Cap. 168 hours back-up at +20° C, min 48 hours over operating temperature range
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Clock accuracy	IEC 62052-21, IEC 62054-21
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Temperature range (°C)	
• Operating	-40 to +55
• Storing	-40 to +70

Environment	According to IEC 60695-2-1:
Resistance to heat and fire	• Terminal 960° C • Cover 650° C

Enclosure material	
Upper	Polycarbonate
Lower	Polycarbonate/glass fibre

Humidity	75% yearly average, 95% on 30 days/year
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Connection area, main terminals	
• Flexible	1 x mm ² 4 - 25
• Solid	1 x mm ² 4 - 25

Protection against penetration of dust and water	According to IEC 60529:
	• IP20 on terminal block without protective enclosure *)

Pulse output	
Connection area, main terminals	
• Flexible	1 x mm ² 0 - 2.5
• Solid	1 x mm ² 0 - 2.5
External pulse voltage (V) DC	5 - 40 (transistor output)
Max. current (mA)	100
Pulse length (ms)	100
Pulse frequency (imp/kWh)	100
Standard	IEC 62053-1 (SO)

*) To comply with the protection requirements the meter must be mounted in a class IP 51 enclosure or better, according to IEC 60529.

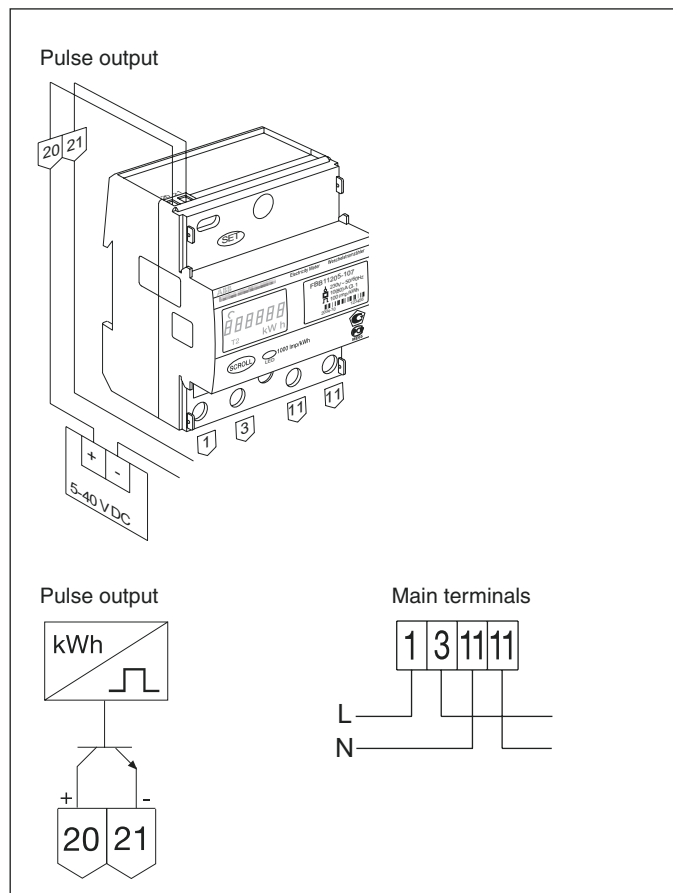
LED

Pulse frequency (imp/kWh)	1000
Pulse length (ms)	40
Display of energy	LCD with 6 digits, height 6 mm

Dimensions

Width (mm)	72
Height (mm)	95
Depth (mm)	63.6

Wiring diagrams



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