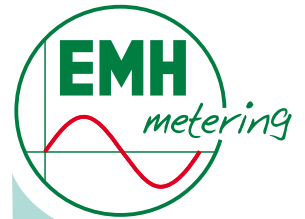


ED300L Domestic Meter



- ✓ Display of instantaneous power and consumption of the last 1, 7, 30 and 365 days
- ✓ Low energy consumption
- ✓ High resistance to external magnetic fields
- ✓ Manipulation recognition of the terminal cover
- ✓ RS232 interface for Smart Metering applications



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EN Edition: 07.07.2010
ED300L-DAB-E-1.10

Electronic Domestic Meter - ED300L

Voltage	4-wire meter	3x230/400 V, also for use in 2-wire systems 230 V
Current		0,25-5(60) A, 0,25-5(100) A
Frequency		50 Hz
Accuracy	active energy	Cl. A acc. to EN 50470-1, -3
Measuring types	active energy	unidirectional meter ¹ +A with non-reverse ratchet or unidirectional meter ² -A with non-reverse ratchet or bidirectional meter ² +A and -A or balancing meter ² -A without non-reverse ratchet
Meter constants	LED (IR)	10 000 Imp./kWh (60 A), 5 000 Imp./kWh (100 A)
Energy registers	maximum number	1 and 2 ³ tariff registers
Tariff switching	external	via electrical data interface or control input
Control inputs	system voltage	2 for tariff control and activation of the 2 tariff display
Data retention time		without voltage in the EEPROM, at least 20 years
Display	type digit size	2-digit LC-display 8 mm (value area)
Operation	optical button mechanical button (optional)	for display request and clear of consumption register sealable
Data interfaces	optical data interface electrical data interface data protocol baud rate resolution of the energy value data identification	on frontside (unidirectional - push operating) under the terminal cover (RS232), bidirectional; supply through communication device: +5 V DC or +12 V DC current limit to 10 mA Smart Message Language (SML); transmission of a fixed data record approx. 1...4 s 9600 baud 100 mWh OBIS-Codes
Energy supply		3-phase power supply, 1-phase in 2-wire systems Due to very low electromagnetic radiation the operation of a nearby installed radio-ripple control receiver can be guaranteed without any problems.
Power consumption per phase	voltage path current path	< 1,2 W < 0,05 W
EMC-characteristics	isolation resistance surge voltage resistance against HF-fields	isolation: 4 kV AC, 50 Hz, 1 min EMC: 4 kV, impulse 1,2/50 µs, 2 Ω ISO: 6 kV, impulse 1,2/50 µs, 500 Ω 8 kV/1 Ws, impulse 0,1/2000 µs 10 V/m (under load)
Temperature range	specified operating range limit range for operation imit range for storage and transport	-25°C...+55°C -40°C...+70°C -40°C...+80°C
Relative humidity		95%, non-condensing acc. to IEC 62052-11, EN 50470-1 and IEC 60068-2-30
Housing	dimensions class of protection degreee of protection: housing degreee of protection: terminals housing materials fire characteristics	approx. 178 x 265 x 79 (W x H x D) mm II IP 51 IP 31 polycarbonate glass-fibre-reinforced, without halogen, recyclable acc. to IEC 62052-11
Weight		max. 1,3 kg
Terminal block	terminal dimensions current- / neutral terminals voltage- / additional terminals number of additional terminals	Ø 7,1 mm (60 A), Ø 9,6 mm (100 A) spring terminals (W x H) 2,6 x 2,2 mm (Ø 2,2 mm) 1 x RJ10 and 3 additional terminals
Further features	manipulation recognition with opening of the terminal cover	registration of manipulations in the operation logbook

Product specifications are subject to change without notice!

¹ designable only as two tariff meter
² designable only as one tariff meter
³ only with unidirectional meters +A

