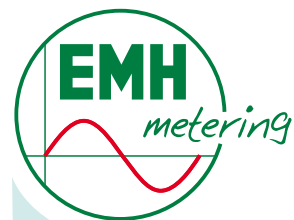


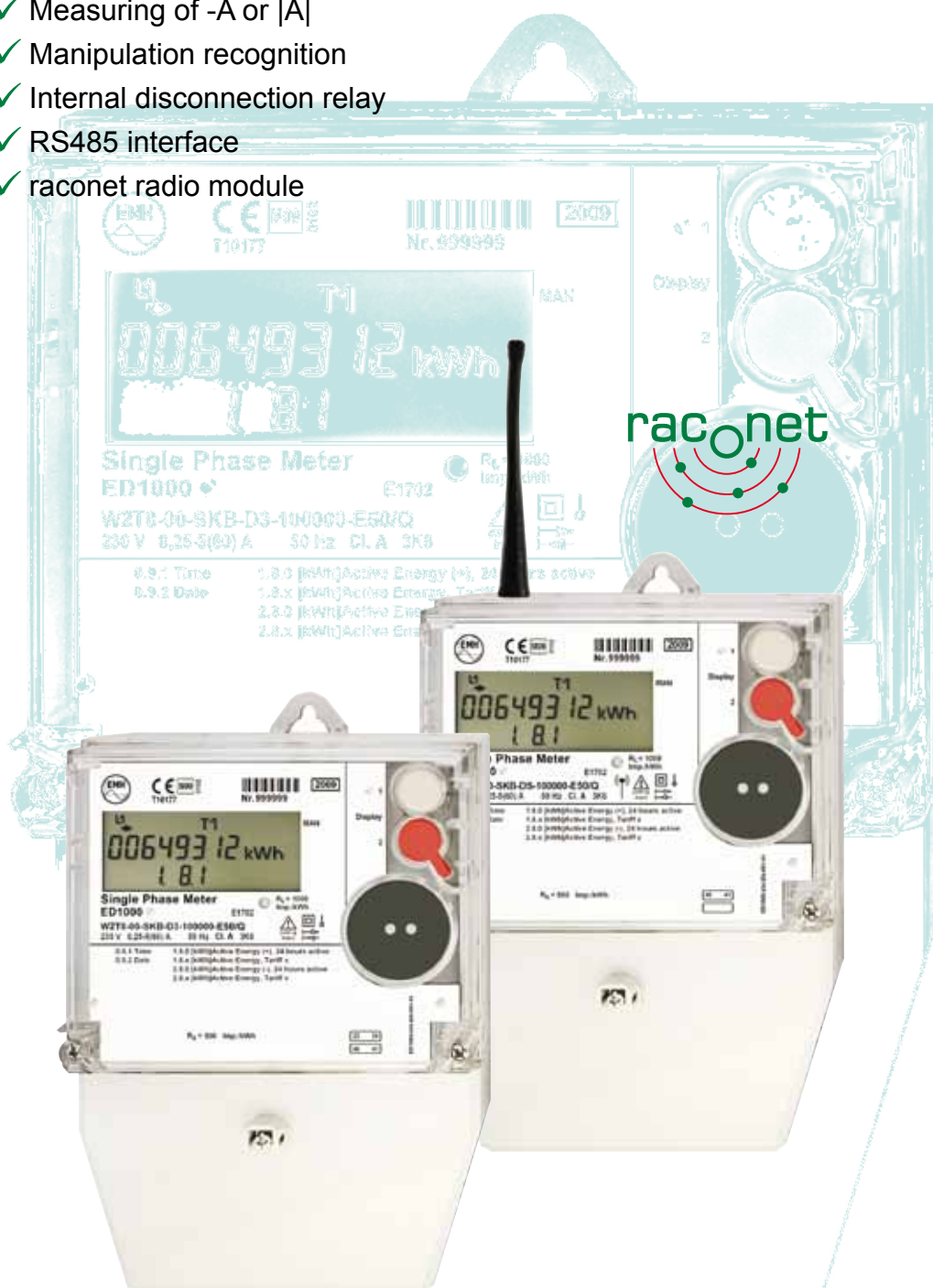
# ED1 Series



- ✓ Measuring of +A
- ✓ Up to 4 tariffs
- ✓ Internal Real Time Clock
- ✓ LC-digits with 8 digits
- ✓ Operation with buttons

Options:

- ✓ Measuring of -A or |A|
- ✓ Manipulation recognition
- ✓ Internal disconnection relay
- ✓ RS485 interface
- ✓ raconet radio module



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Version: 30.06.2010  
Ed1Series-DAB-E-1.40

## Digital Multi-Tariff Meter

<b>Voltage</b>	2-wire meter	220 V, 230 V, 240 V
<b>Current</b>		5(60) A, 5(100) A, 10(60) A, 10(100) A
<b>Frequency</b>		50 Hz
<b>Accuracy</b>	active energy	Cl. A acc. to EN 50470-1, -3 or Cl. 2 acc. to IEC 62053-21
<b>Measuring types</b>	active energy	+A (with non-reverse ratchet), optional: +A/-A or  A
<b>Meter constants</b>	LED output	1000 Imp./kWh (60 A), 500 Imp./kWh (100 A) 500 Imp./kWh (60 A), 250 Imp./kWh (100 A)
<b>Energy registers</b>	maximum number	4 tariff registers + 1 tariffless register for every measuring type each
<b>Real Time Clock</b>	accuracy synchronisation running reserve battery	within $\pm 5$ ppm via data interfaces > 10 years
<b>Control inputs</b>	system voltage	1
<b>Data retention time</b>		without voltage in the EEPROM, at least 20 years
<b>Display</b>	type digit size additional display	LCD 8 x 4 mm (value range) status information on phase failure, energy direction, tariffs, meter start-up, manipulation, communication and running reserve of the real time clock
<b>Operation</b>	mechanical button	for display call-up
<b>Data interfaces</b>	optical data interface electrical data interface (optional) data protocols radio interface	optical data interface D0 (Mode C up to 4800 baud) RS485 (fixed or Mode C up to 9600 baud) IEC 62056-21 integrated raconet radio module
<b>raconet radio module (optional)</b>	functions transmitting frequency certification	meter remote readout via bi-directional communication, online mode, transferring of commands, automatic network build-up etc. 868 MHz in licence free ISM-band acc. to DIN EN 300220, CE mark
<b>Output</b>	S0	max. 27 V DC, 27 mA
<b>Energy supply</b>	mains buffering time	1-phase from the measuring voltage > 200 ms
<b>Power consumption per phase (Basic meter)</b>	voltage path current path	< 1,8 VA/1,3 W < 0,05 VA
<b>EMC-characteristics</b>	isolation resistance surge voltage resistance against HF-fields	isolation: 4 kV AC, 50 Hz, 1 min EMC: 4 kV, impulse 1,2/50 $\mu$ s, 500 $\Omega$ (measuring paths and input) 10 V/m (under load)
<b>Temperature range</b>	specified operating range limit range for storage and transportation	-25°C...+55°C -40°C...+70°C
<b>Relative humidity</b>		95%, non-condensing acc. to IEC 62052-11, EN 50470-1 and IEC 60068-2-30
<b>Housing</b>	dimensions class of protection degree of protection housing/terminals material fire characteristics weight	approx. 134 x 208 x 56 (W x H x D) II IP 51/IP 20 polycarbonate glass-fibre-reinforced, without halogen, recyclable acc. to IEC 62052-11 max. approx. 0,8 kg
<b>Terminal blocks</b>	execution  terminals current-/neutral terminals voltage-/auxiliary terminals	DIN terminal block BS terminal block (British Standard)  $\varnothing$ 7,2 mm (60 A), $\varnothing$ 9,5 mm (100 A) $\varnothing$ 3,5 mm
<b>Further features</b>	manipulation recognition with opening of the terminal cover internal disconnection relay	Registration of the number of manipulation attempts and the start of the last manipulation attempt. For 60 A, controlled by internal limitation or external communication The dielectric strength in open disconnection relay is 1,5 kV AC, 50 Hz, 1 min.

Product specifications are subject to change without notice.

