

User Manual

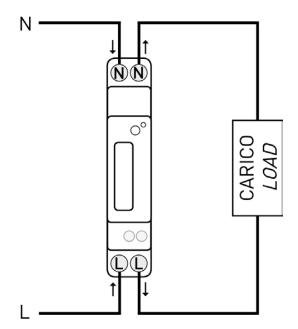
1. Description.

The **EC1-40** is a one DIN modules energy meter for energy measurement in industrial and civilian applications, available with MID certification and suitable for billing.



Picture 1 - Product image

2. Connections layout.



Picture 2 - Connections layout



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3. Technical information.

Power supply	Power supplied from the voltage circuit
	Nominal measurement voltage ±20%
	Maximum consumption: 1.5VA - 1W
	Nominal frequency: 50/60Hz
Voltage and frequency (Nominal values)	230V 50/60Hz
Current	Maximum value (I _{max}): 40A
	• Reference value (<i>I_{ref}</i>) (<i>Ib</i>): 5A
	• Transition value (<i>I</i> _{tr}): 500mA
	• Minimum value (I _{min}): 250mA
	• Starting value (<i>I</i> _{st}): 20mA
Accuracy	Active energy class 1 according to IEC/EN 62053-21 (NO MID)
	Active energy class B according to EN50470-3 (<i>MID</i>)
	 Reactive energy class 2 according to IEC/EN 62053-23
S0 output	Passive optoisolated
	Maximum values: 27Vcc - 27 mA
	Meter's constant: 1,000 pulses/kWh (*)
	Pulse length: 100 ±0.5ms
Metrological LED	Meter constant: 5,000 pulse/kWh
	Pulse lenght: 4 ±0.1ms
Working conditions	• Operative: -25°C ÷ +55°C
	• Warehousing: -40°C ÷ +75°C
	Relative humidity: 80% maximum without condensation
Sealing	IP51 frontal - IP20 terminals
Dimensions	90 x 64 x 18mm

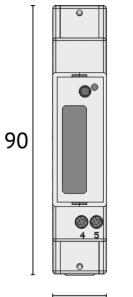
(*) unit of measurement (pulses/kWh, pulses/kvarh, pulses/kVAh) changes according to energy meter linked (kWh, kvarh, kVAh)



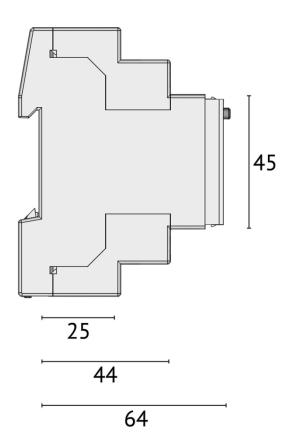


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4. Mechanical dimensions.



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Picture 3 - Mechanical dimensions



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5. Reference standards.

EN 61010 -1

For electromagnetic compatibility

EN 61000 - 3 - 2 EN 61000 - 3 - 3 EN 300 220 -2 EN 301 489 - 03 EN 61000 - 6 -1

This symbol indicates that this product is compliant with the European Directive 2011/65/CE that restricts the use of substances in the manufacturing of electronic devices.



The "WEEE" logo on the label indicates that this product is compliant with the "WEEE" EC Directive. This symbol (valid only in the European Union countries) indicates that the product it is applied to, MUST NOT be discarded with ordinary household or industrial waste, but must be sent to an authorized reception point. The end user should contact the device provider, either the manufacturer or the reseller, in order to agree a collection and disposal process, after having checked the terms and conditions of sale.

The features shown may be subject to change without notice.



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