

Multifunction electrical energy meters for DIN rail assembly



Much more than an energy meter



CEM series



CEM **C10**







CEM **C20**

CEM **C30**

CEM M









» Accuracy in Active Energy MID: Class B (EN 50470)
» Accuracy in Active Energy: Class 1.0 (IEC 62053-21)
» Accuracy in Reactive Energy: Class 2.0 (IEC 62053-23)





Versatile





Versatile

- » Lateral expansion bus, OSC System
- » RS-485 Modbus/RTU communication module
- » Expandable with new communication modules
- » Digital impulse output included as standard





Versatile

Safe





Versatile

Safe

- » Fully sealable unit
 (buttons and terminals)
- » Suitable for legal billing systems (MID)





Versatile

Safe

Multifunction





Versatile

Safe

Multifunction

- » Measurement of kg of CO₂ consumed and consumption in economic terms (€, \$, INR, etc.)
- » Measurement of electrical parameters
 - V, A, kW, kvar, $\cos\phi$, Hz
- » 4-quadrant measurement





Versatile

Safe

Multifunction

Competitive





Versatile

Safe

Multifunction

Competitive

» Best value for money» Adaptable to measurement circuits and applications.









Electrical parameter measurement *V, A, kW, kW·h, kvar, cos φ*



Quick screen display



Measurement in 2 or 4 quadrants



Impulse output





More advantages



MID Certification Class B / 1 (EN 50470 / IEC 62053-21)



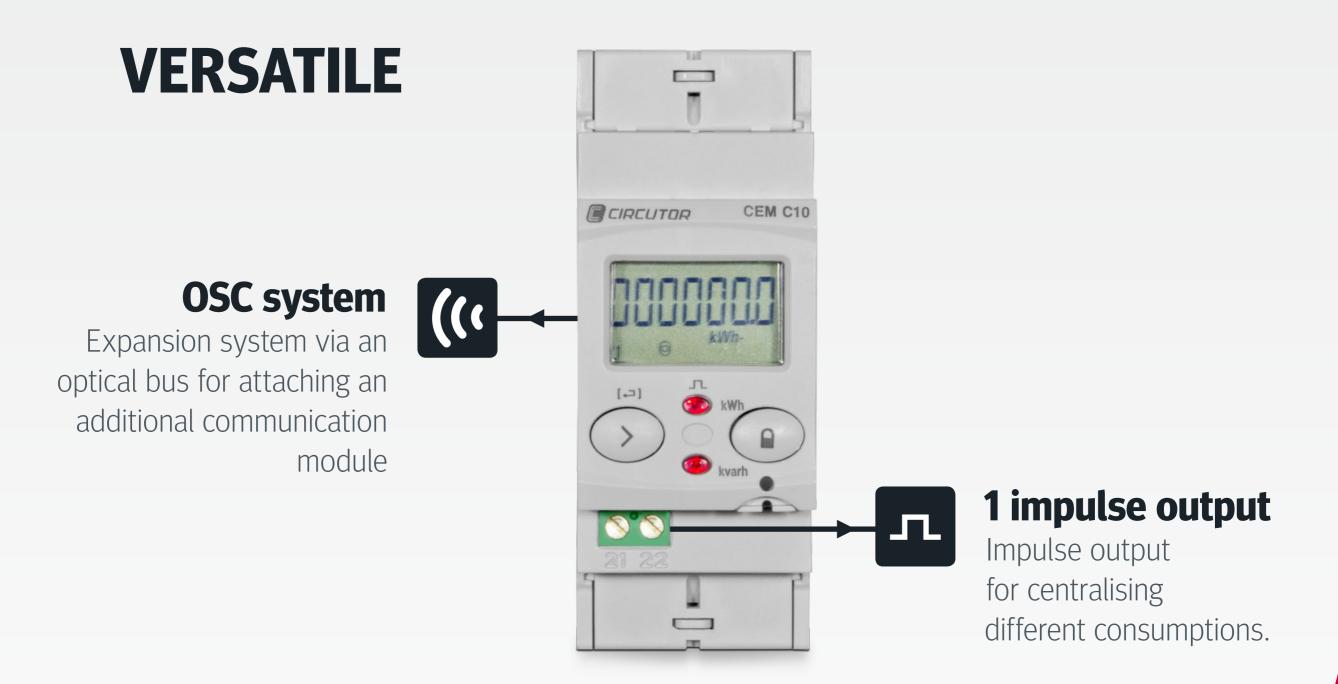
2 Tariffs Fully configurable tariffs



OSC Optical Communications

Lateral optical communications port





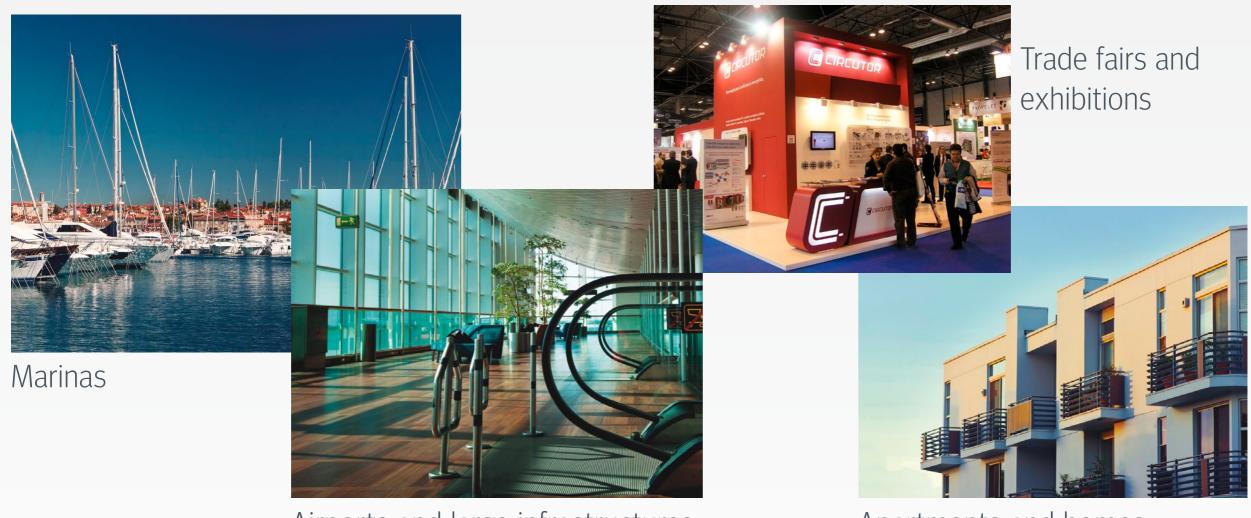


Endless Number of Applications

» Control and allocation of energy costs
» Monitoring demand by user
» Display of economic costs



Shopping centres



Airports and large infrastructures

Apartments and homes



Other features

- ABS + VO self-extinguishing polycarbonate enclosure
- Compact enclosure to be assembled on 2~4 DIN rail modules, 61 mm deep.
- IP 51 protection on the front panel
 IP 40 on the terminals
- Backlit LCD
- 1 Octocoupled impulse output max. 24 Vdc /50 mA
- Rated voltage
 230 Vac / 127 Vac ±20 %

- Frequency 50...60 Hz
- Consumption
 4 W / 10 VA
- Active Energy Accuracy = Class B (EN 50470) Class 1 (IEC 62053-21)
- Reactive Energy Accuracy = Class 2.0 (IEC 62053-23)
- Regulations
 EN 50470-1, EN 50470-3, IEC 62052-11, IEC 62053-21, IEC 62053-23



New range of electrical energy meters





4 modules



4 modules



2 modules

CEM-C10

2 modules

CEM-C20

CEM-C30

Direct single-phase energy meter, assembly on DIN rails **Direct three-phase** energy meter, assembly on DIN rails Indirect three-phase energy meter, assembly on DIN rails



Communication module for CEM energy meters





CEM-M



Vast number of protocols *Modbus/RTU, Modbus/TCP (Coming soon: BACnet, LonWorks, Profibus, etc.)*



Exchangeable modules *By changing a module we change the protocol.*

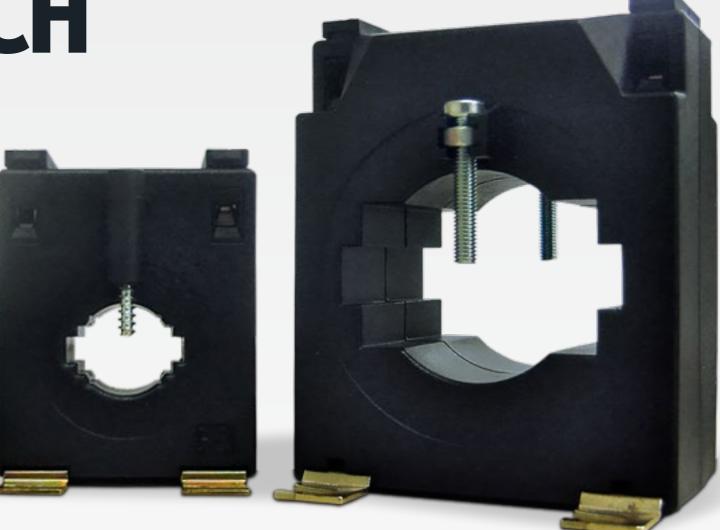


Compact size only 2 DIN rail modules



CT / TP / TCH

Extensive range of measurement transformer







Energy efficiency technology





Tel. (+34) **93 745 29 00** Fax: (+34) **93 745 29 14** central@circutor.com

Vial Sant Jordi, s/n 08232 Viladecavalls (Barcelona) Spain



@circutor

You youtube.com/circutoroficial

