



energy meters instruments for analysis of power consumption

These energy meters are precise measuring instruments designed to monitor the main electrical parameters and instant and total power consumption of the connected loads.

They record power consumption data, thus allowing system managers to carry out complete and detailed analysis in order to:

- identify when and where power is consumed;
- identify incorrect behaviour and usage;
- troubleshoot faults and abnormal power usage;
- evaluate the effects of energy saving strategies implemented.

These instruments are already integrated into and managed by the CAREL PlantVisorPRO and PlantWatchPRO supervisors, and the pLoads and pChrono electrical load controllers.

A 1 tool module is also available for integration into CAREL pCO sistema programmable controllers.

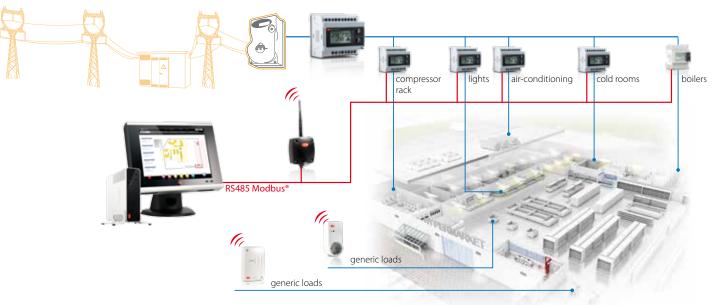
The instruments can moreover be integrated into other BMS systems using ModBus®/RS485 communication.

They are useful additions to the Retail sistema range, which includes a wide offering of Carel products and solutions designed to maximise energy saving, through optimised use of systems, reduction in power consumption, and identification and elimination of waste.

CAREL emeter3:

- three-phase energy meter
- optional display
- DIN rail or built-in mounting
- 4 DIN modules





Product table

Products Single-phase energy meter with built-in user interface. This measures the electrical parameters of the line and the MT100D2100 applied loads, and includes total and partial energy metering. Direct connection for loads up to 65 A. Three-phase energy meter without user interface (optional, P/N MTOPZD0000). Designed for easy installation on the MT300W1100 panel or on DIN rail. It requires three external current transformers (example: MTOPZT1000 or MTOPZT2000, version up to 9600 b/r). Three-phase energy meter without user interface (optional, P/N MTOPZD0000). Designed for easy installation on the MT300W3200] [[NEW panel or on DIN rail. It requires three external current transformers. Options MTOPZD0000 Removable user terminal (no batteries required) for three-phase energy meter MT300W1100. 230 230 @. ..230 & @ MTOPZT* Current transformer: Õð *= 1000: 100 A for cable/busbar; 2000: 200 A for cable/busbar. NEW . MTOPZA* Openable current transformer: *= 1000: 100 A for cable/busbar; 2000: 200 A for cable/busbar; 4000: 400 A for cable/busbar. rTM system wireless solutions Wireless single-phase energy meter for loads up to 2.5 kW with built-in relay for ON/OFF management of electrical WS01C010*0 loads, 85 Vac to 250 Vac 50/60 Hz power supply.

(**∐**∎-| []) WS01

--)))

 WS01C010*0
 Wireless single-phase energy meter for loads up to 2.5 kW with built-in relay for ON/OFF management of electrical loads, 85 Vac to 250 Vac 50/60 Hz power supply.

 *= type of plug; I: Italian; E: European; F: French; U: British. - To be used with Acess Point (code WS01AB2M20)

 WS01C010X0
 Wireless single-phase energy meter for loads up to 2.5 kW with built-in relay for ON/OFF management of electrical loads, 85 Vac to 250 Vac 50/60 Hz power supply, direct connection to the controlled unit for universal use to prevent tampering/vandalism. - To be used with Acess Point (code WS01AB2M20)



Integration

Totally integrated into the 1tool development environment, the CAREL PlantVisorPRO, PlantWatchPRO supervisors and the pLoads controller (optimised management of electrical loads)

Connectivity

Modbus on RS485 communication as standard. Can also be used with third party BMS.



Display

Display for configuration and directly reading the measurements. Removable on the three-phase model. Without battery and electrical contacts.

Headquarters ITALY

CAREL INDUSTRIES HQs

Via dell'Industria, 11 35020 Brugine - Padova (Italy) Tel. (+39) 0499 716611 Fax (+39) 0499 716600 carel@carel.com

Sales organization CAREL Asia - www.carel.com

CAREL Australia - www.carel.com.au CAREL Central & Southern Europe - www.carel.com CAREL Deutschland - www.carel.de CAREL China - www.carel-china.com CAREL France - www.carelfrance.fr CAREL Korea - www.carel.com CAREL Ibérica - www.carel.es CAREL Ibérica - www.carel.it CAREL Mexicana - www.carel.mx CAREL Middle East - www.carel.com CAREL Nordic - www.carel.com CAREL Russia - www.carelrussia.com CAREL South Africa - www.carelcontrols.co.za CAREL South Africa - www.carel.com.br CAREL Thailand - www.carel.com CAREL Thailand - www.carelu.co.uk CAREL U.K. - www.careluk.co.uk

Affiliates

CAREL Czech & Slovakia - www.carel.com CAREL Ireland - www.carel.com CAREL Japan - www.carel-japan.com CAREL Turkey - www.carel.com.tr

CAREL India - www.carel.in