

IDEA- DOM-EM-LCD7

EIB-Ethernet load control device

€6,900.00 + VAT



PRODUCT SHEET

The **DOM-EM-LCD7 control unit** with a web-oriented interface provides control of all the systems present in the building: air conditioning, lights, environmental sensors, interface with various devices, access control, audio and video multimedia.

Control of air conditioning system flow temperatures and domestic hot water distribution using waterproof digital temperature probes.

Electricity consumption control MID (Energy Meter) certification

Input – Output Control - Generic Input Terminal - Generic Output Terminal

Alarm interface for air conditioning systems, heat pumps, chillers, air handling units, gas boilers, solar and photovoltaic panels.

The control unit is able to simultaneously interface with all the machinery required for the building's air conditioning:

- modbus / GPIO / 0-10V interface for PDCs
- Modbus interface for ventilation, Uta
- NC-C-NO relay for the gas boiler
- relay interface for power and fan control of the different split units
- KNX interface
- input from temperature and humidity sensors
- input from waterproof temperature sensors for flow/return temperature control

The DOM control unit is able to display energy consumption through multimedia channels, by periodically providing data, as required by the 110% super-bonus decree.



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Via Casilina Sud n.182 - 03013 - Ferentino FR VAT number and tax code 02780900607

www.ideaopen.itideaopensrl@gmail.com

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Check electricity consumption:

Type: single phase: Power supply: 230V ~, 50Hz

Base current (Ib): 5A Maximum current (Imax): 100A Min. current: 0.25 A

Pulse rate: 1000 imp/kWh Measurement accuracy class: B

Compliance with mid certificate (2014/32/eu):

Degree of protection: IP51

Dimensions (width x height x depth [mm]): 18.2 / 95.3 / 72

Lithium battery

Input-output control

Serial Ports - 2 x TTL level serial ports, 1 x RS485 port

Relays: 4 with a maximum of 16 A at 24 VAC or 250 VAC,
screw terminals for normally open and normally closed contacts

I/O - 8 channels, choice of VFC input or NPN output.

Analog Inputs: 4 channels 10-bit A/D.

RJ45 Ethernet communication for normal access

Power supply: 2.1mm 12V DC socket (adapter sold separately)

The **DOM-EM-LCD7 control unit** falls within the scope of ref.* D 13.01.12 as:

EIB-Ethernet load control device for monitoring and maintaining the set average power value.
Interfaces with the EIB bus. Activation/deactivation of loads. Controlled loads or groups of loads:
16 via relay.

Measures:

Supply voltage: 230V/400V~, 50/60Hz, Base current (Ib): 5A

Maximum current (Lmax): 40A, Minimum current (Lmin): 0.25A, Accuracy class: B

Compliance (2014/32/EU): yes, Protection class: IP51

7" touch-screen LCD display: value display

set average and remaining time with respect to the set measurement cycle.

Power supply: 230 V AC +6/-10%, 50 Hz.

Dimensions: 17-module DIN modular profile.

Installation Performed according to the rules of the art.

The **DOM-EM-LCD7 control unit** falls within the "HIGH ENERGY PERFORMANCE" Class A

The EN15232 standard defines four different "BAC" energy efficiency classes for classifying building automation systems, both residential and non-residential. These four classes, from D to A, do not directly correspond to the seven building energy efficiency classes (ABCDEFG) defined by EN 15217, expressed in kWh/m² per year or kWh/m³ per year. Instead, they represent automation systems with increasing energy efficiency:

- Class D "NON ENERGY EFFICIENT": includes traditional technical systems without automation and control, which are not energy efficient;



- Class C “STANDARD” (reference): corresponds to systems equipped with “traditional” building automation and control systems (BACS), possibly equipped with a communication BUS, in any case at minimum performance levels compared to their real potential.
- Class B “ADVANCED”: includes systems equipped with an advanced automation and control system (BACS) and also equipped with some specific building management (TBM) functions for centralized and coordinated management of individual systems. “The room control devices must be able to communicate with the building automation system.”
- **Class A “HIGH ENERGY PERFORMANCE”**: corresponds to “high energy performance” BAC and TBM systems, i.e., with levels of precision and completeness of automatic control that guarantee high energy performance for the system. “Room control devices must be able to manage HVAC systems taking into account various factors (e.g., preset values based on occupancy detection, air quality, etc.) and include additional integrated functions for multidisciplinary relationships between HVAC and various building services (e.g., electricity, lighting, solar shading, etc.)”.

Fault diagnostics and scheduled maintenance

Detection of consumption trends and indications for improvement

Best regards

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