

BMS01

Unit for the integration of CDOM06 with the technological system

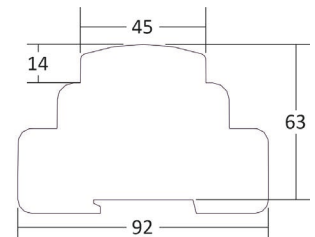
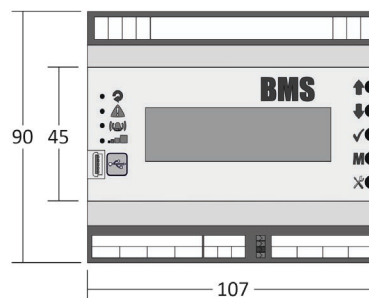
The BMS01 “Artificial Intelligence” unit allows, via an RS485 BUS line that interconnects all the various CDOM06/CDOM04 programmable thermostat in the building, to communicate the energy requirement data of the entire building to the 1PETAX3SUx series peripheral unit that manages the technological system; in this way the system as a whole is able to manage the interaction of the room thermoregulation with the automation of regulation/control of thermal energy production (PCD, boilers, refrigeration units, hybrid systems, etc.) and regulation/control of the distribution circuits (mixing units, circulators, etc.) complying with the functional requirements required by the UNI EN ISO 52120:1 standard for BACS systems with performance classes B and A.

The BMS01 unit can monitor up to 250 zones/rooms of the building which can be divided into 15 circuits/areas, providing, via an RS232 or RS485 serial port with ModBus protocol, the information useful for managing the technological system.

For each of the circuits/areas (15 max) into which the building zones can be divided, the BMS01 unit provides every 15 minutes the thermal telemetry data relating to TMin/TMed/TMax room, Tset max room as well as the number of Zones (rooms) associated with the single Circuit and the number of Zones that result in heat calls.

The unit also allows remote control, via the Computherm WEB portal, of some functional modes of the room thermoregulation, making it possible to modify the setpoints, the AUTO/MAN mode and the maximum/minimum limits of the temperature settings in the rooms.

Important note: this device is part of the CDOM Building Automation System, compliant with UNI EN ISO 52120:1, whose automation level/class certification must be drawn up by a specific professional in compliance with the certification procedures reported in the UNI TS 11651 Technical Specification.



Dimensions (mm)

TECHNICAL FEATURES

Operator interface:	2-line, 16-character alphanumeric LCD, 5 menu navigation keys, 4 status LEDs
Power supply:	12Vdc, max. current consumption 250mA
Connectivity:	RS485 bus line to CDOM06 backbone - RS232 line (TX/TX/GND) to TAX3SEx peripheral
Actuation outputs:	4 relays for controlling circuits 1-4, potential-free contacts (NO/COM), rated 5(2)A 250Vac
Operating conditions:	-5°C to +55°C – RH% 0-95% (non-condensing)
Dimensions:	6-module DIN rail, 107x92x63 mm
Protection rating:	IP20
Compliance:	Directive 2014/53/EU (RED);

SPECIFICATION ITEM

“BMS01 Artificial Intelligence” unit, for the management of 250 climate zones, divisible into a maximum of 15 HVAC regulation circuits/areas for the intelligent management of heating/cooling requests from areas of the building equipped with CDOM04/CDOM06 series home automation units in interaction with the remote management system of the technological systems present in C.T.; Operator interface with LCD (2 lines of 16 characters), 5 menu access/management keys and 4 LEDs for functional status indication; Equipped with RS232 serial port, RS485 serial port with Modbus RTU Slave protocol and four relays for direct commands to 4 HVAC regulation circuits/areas; Power supply 12Vdc max consumption 250mA; Built in 6-module DIN container for panel mounting; Dimensions 107x92x63mm.

ACCESSORIES

1PE2AL122A 12V 2A regulator power supply - DIN rail mounting