



## Central heating module for MaggiorDOMO® systems

- Allows energy to be supplied in proportion to actual demand
- Management of flow temperature thresholds remotely
- Remote control unit time management
- Energy and economic savings

# XCM-MCT-100

### Applications

For residential

**XCM-MCT-100** allows the connection of a MaggiorDOMO® system to the heating plant in order to **optimize the use of energy** and achieve **greater savings**. The module provides a maximum of seven clean contacts that can be combined with the pumps of the same number of control unit circuits. As soon as an apartment connected to a circuit requires heat, the relative contact closes allowing **the activation of the relative circuit pump combined with it**. The module also provides a **value proportional to the heat demand of the periphery** (via 0-10V and 4-20mA signals), allowing the control unit that governs the central unit to **deliver energy in proportion to the actual demand**. The flow **temperature acquisition** function allows to interrupt the metering if the flow falls below a threshold. The threshold can also be set remotely. XCM-MTC-100 provides a **contact that can be connected to the calendar** of the MaggiorDOMO® system so as to manage **the times of the central unit remotely**, or acquires a contact provided by the central clock that informs the system of the operation of the central unit, so as to ensure the correct metering of the heat in the periphery.

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### Technical Features

General specifications	<b>Protection Range:</b> Front: IP40; Screw Terminals: IP20 <b>Operative Temperature:</b> -10 ÷ +60 °C <b>Relative Humidity:</b> MAX 95% not condensing
Case	<b>Dimensions:</b> 73 x 136 x 60 mm (W x H x D) <b>Mounting:</b> DIN-rail <b>Required DIN modules:</b> 4 DIN modules <b>Electric Board Type:</b> Industrial or switchboard <b>Material:</b> Self extinguishing: UL 94 V-0
Power supply	<b>Supply Voltage:</b> 24 VAC (50-60 Hz), 35 VA max or 20 ÷ 30 VDC <b>Consumption:</b> < 12 W <b>Connectors types:</b> Removable terminals
Ups	<b>Battery Type:</b> SuperCap for internal clock function maintenance <b>Approximate Battery Life:</b> Keep watch data in the event of power failure for 3 days when the battery is fully charged
Datalogger function	<b>Memory Type:</b> Flash 256 KB; RAM 4 KB
Rs485 interface	<b>Supported Protocols:</b> Master or slave ModBUS RTU <b>Communication Rate:</b> 100 Kbit/s <b>Isolation:</b> Non optoisolated <b>Connectors types:</b> Removable terminals
Digital inputs	<b>Channels:</b> 2 for clean contact (Central On/Off, Central Alarm)
Analog inputs	<b>Channels:</b> 1 for flow temperature <b>Precision:</b> PT1000
Digital outputs	<b>Channels:</b> 9 for clean contact (7 pumps, 1 boiler, 1 calendar)

#### Technical Features

Analog outputs

**Output Type:** 1 of type 0-10 V and 1 of type 4-20 mA (proportional output)

Certifications

**Approvals:** CE