

Product availability: Non-Stock - Not normally stocked in distribution facility

Price\*: 250.00 USD



### Main

|                              |   |
|------------------------------|---|
| Range of Product             | Modicon M171/M172   |
| Product or Component Type    | Programmable controllers  |
| Product Specific Application | HVAC  |
| Variant                      | Programmable  |
| Number of inputs/outputs     | 7   |
| Discrete input number        | 2   |
| Discrete output number       | 1 relay outputs SPDT with independent common<br>2 relay outputs SPST with same common |
| Discrete output current      | 3 A relay SPST<br>3 A relay SPDT  |
| Analogue input number        | 2 configurable by pair  |

### Complementary

|                        |   |
|------------------------|---|
| Number of port         | 1 CAN port - screw terminal block<br>1 USB type A - USB type A female<br>1 USB type mini B - USB device port Mini-B<br>2 RS485 - screw terminal block Modbus serial link or BACnet MS/TP)<br>1 Ethernet - RJ45 Modbus TCP and BACnet IP with webserver) |
| Input/output number    | 2 digital input<br>2 analog input<br>3 digital output   |
| Discrete input logic   | Sink or source (positive/negative) up to 2 kHz  |
| Discrete input voltage | 24 V AC/DC  |
| Discrete input current | 5 MA AC/DC  |
| Input impedance        | 20 kOhm   |

|                           |  |
|---------------------------|--|
| Analogue input type       | <p>NTC NK103 Beta 3977 temperature probe - 40...137 °C 0.1 °C 10 kOhm at 25 °C)<br/>         NTC 103AT-2 Beta 3435 temperature probe - 50...110 °C 0.1 °C 10 kOhm at 25 °C)<br/>         Voltage 0...10 V 1 digit &gt; 10 kOhm<br/>         Voltage 0...5 V 1 digit &gt; 20 kOhm absolute or ratiometric)<br/>         Impedance 0...1500 hOhm 1 hOhm 10 kOhm<br/>         Impedance 0...300 daOhm 1 daOhm 1500 Ohm<br/>         PTC temperature probe - 55...150 °C 0.1 °C 1500 Ohm<br/>         Pt 1000 temperature probe - 200...850 °C 0.1 °C 1500 Ohm<br/>         Current 0...20 mA/4...20 mA 1 digit &lt; 150 Ohm<br/>         direct input 10 kOhm Dry contact)</p>  |
| Measurement accuracy      | <p>0...20 mA 0...4 mA +/- 2 % of full scale +/- 1 digit<br/>         0...20 mA 4...20 mA +/- 1 % of full scale +/- 1 digit<br/>         4...20 mA +/- 1 % of full scale +/- 1 digit<br/>         0...10 V +/- 1 % of full scale +/- 1 digit<br/>         0...5 V +/- 1 % of full scale +/- 1 digit<br/>         DaOhm 0...300 daOhm +/- 2.5 daOhm<br/>         NTC NK103 Beta 3977 -40...+110 °C +/- 1 °C<br/>         NTC NK103 Beta 3977 110...137 °C +/- 1.9 °C<br/>         NTC 103AT-2 Beta 3435 - 50...110 °C +/- 1 °C<br/>         PTC -55...155 °C +/- 1.1 °C<br/>         Pt 1000 -200...-100 °C +/- 10 °C<br/>         Pt 1000 -100...-50 °C +/- 2.5 °C<br/>         Pt 1000 -50...100 °C +/- 1.5 °C<br/>         Pt 1000 100...400 °C +/- 2.4 °C<br/>         Pt 1000 400...850 °C +/- 10 °C<br/>         HOhm 0...750 hOhm +/- 8.5 hOhm<br/>         HOhm 750 hOhm...1500 hOhm +/- 24 hOhm</p> |
| Sensor power supply       | <p>5 V DC 40 mA supplied by the controller<br/>         24 V DC 100 mA supplied by the controller</p>  |
| [Us] rated supply voltage | <p>24 V +/- 10 % AC<br/>         20...38 V DC</p>  |
| Power consumption in W    | 10 W 24 V AC/DC  |
| Realtime clock            | Built-in <= 30 s/month -4...140 °F (-20...60 °C)   |
| Display type              | Without Display  |
| Overvoltage category      | II   |
| Local signalling          | <p>For programmable 1 LED (red)<br/>         For programmable 1 LED (yellow)<br/>         For programmable 1 LED (green)<br/>         for power 1 LED (green)</p>  |
| Mounting Support          | <p>DIN rail<br/>         Panel mounting with accessory</p>   |
| Maximum Width             | 2.83 In (72 mm)  |
| Maximum Height            | 4.33 In (110 mm)   |
| Maximum Depth             | 2.38 In (60.5 mm)  |
| Net Weight                | 0.39 Lb(US) (0.175 kg)   |

## Environment

|                                       |   |
|---------------------------------------|---|
| Directives                            | 2014/35/EU - low voltage directive<br>2014/30/EU - electromagnetic compatibility  |
| Standards                             | IEC 61000-4-6<br>UL 60730-1<br>IEC 61000-4-3<br>EN 60730-1<br>IEC 61000-4-5<br>IEC 61000-4-2<br>EN 60068-2-6 Fc<br>EN 60730-2-9<br>CSA E60730-2-9<br>EN 60068-2-27<br>CAN/CSA-E60730-1<br>IEC 61000-4-11<br>UL 60730-2-9<br>IEC 61000-4-4 |
| Product Certifications                | CE<br>RCM<br>CURus<br>CSA<br>EAC  |
| Ambient air temperature for operation | -4...140 °F (-20...60 °C)   |
| Ambient Air Temperature for Storage   | -22...158 °F (-30...70 °C)  |
| Relative humidity                     | 5...95 % non-condensing   |
| IP degree of protection               | IP20  |
| Pollution degree                      | 2   |

## Ordering and shipping details

|                       |                                      |
|-----------------------|--------------------------------------|
| Category              | 22537 - M171 / M172 HVAC CONTROLLERS |
| Discount Schedule     | PC12                                 |
| GTIN                  | 03606481390059                       |
| Nbr. of units in pkg. | 1                                    |
| Package weight(Lbs)   | 9.17 Oz (260 g)                      |
| Returnability         | No                                   |

## Packing Units

|                        |                   |
|------------------------|-------------------|
| Unit Type of Package 1 | PCE               |
| Package 1 Height       | 2.95 In (7.5 cm)  |
| Package 1 width        | 3.74 In (9.5 cm)  |
| Package 1 Length       | 5.31 In (13.5 cm) |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>  |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>   |

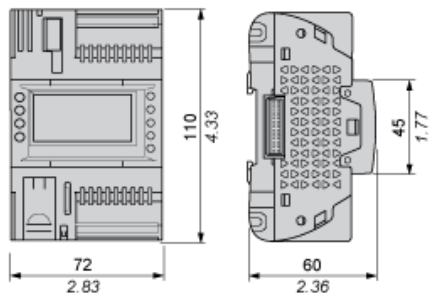
WEEE

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions Drawings

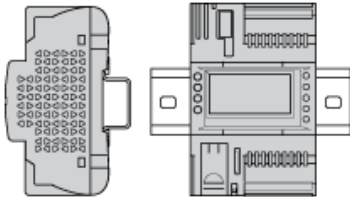
Dimensions

mm  
in.

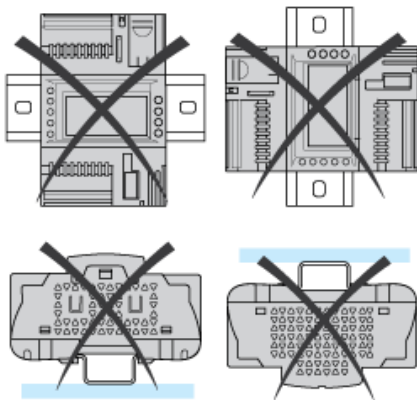


Mounting Positions

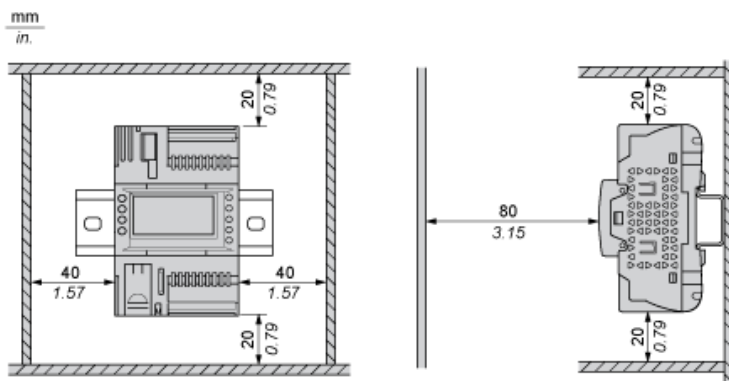
Correct Mounting Position



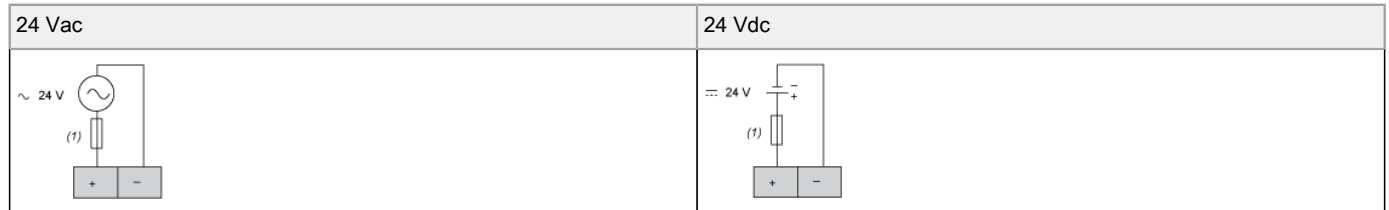
Incorrect Mounting Position



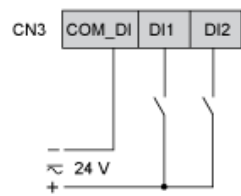
Clearance



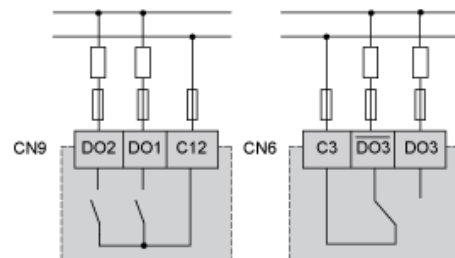
Power Supply



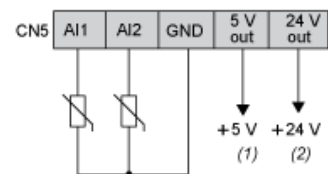
CN3 Fast Digital Inputs



CN9, CN6 High Voltage Relay SPST Digital Output

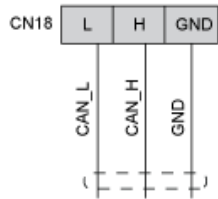


CN5 Analog Inputs

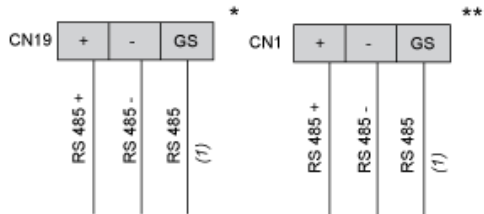


- (1) Max. current : 50 mA.
- (2) Max. current : 100 mA.

CN18 CAN Expansion Bus Port



## CN19, CN1 RS485 Bus Port



(1) Signal reference

\* RS485-1 Modbus SL

\*\* RS485-2 Modbus SL or BACnet MS/TP

Product Life Status : **Commercialised**