



Main

| | |
|------------------------------|---|
| Range of Product | Modicon M171/M172 |
| Product or Component Type | Controller |
| Product Specific Application | HVAC and pumping solution |
| Variant | Programmable |
| Total inputs/outputs | 22 |
| Discrete input number | 6 |
| Discrete output number | 1 open collector 3 relay outputs SPST with same common 2 relay outputs SPST with independent common |
| Discrete output current | 2 A relay |
| Analogue input number | 2 configurable 3 analog input NTC |
| Analogue output number | 3 voltage 0...10 V 2 PWM/PPM 20 kHz, 12 V, 35 mA |

Complementary

| | |
|---------------------------|--|
| Number of port | 1 LAN expansion bus |
| Input/output number | 5 analog output 6 digital input 5 analog input 6 digital output |
| Discrete input logic | Sink or source (positive/negative) |
| Contacts usage | Volt-free contacts |
| Analogue input type | Voltage 0...5 V ratiometric) Voltage 0...10 V NTC temperature probe - 50...100 °C 0.1 °C Current 0...20 mA/4...20 mA Voltage 0...1 V |
| Sensor power supply | 12 V DC 85 mA 5 V DC 20 mA |
| [Us] rated supply voltage | 24 V 12...24 V AC |
| Realtime clock | Built-in -4...131 °F (-20...55 °C) |
| Display type | Four 7-segment display units |
| Overvoltage category | II |
| Local signalling | 6 LEDs (red) 5 LEDs (green) For programmable 7 LEDs (amber) |
| Mounting Support | DIN rail |
| Width | 2.76 in (70.2 mm) |
| Height | 3.43 in (87 mm) |
| Depth | 2.43 in (61.6 mm) |
| Net Weight | 0.42 lb(US) (0.19 kg) |

Environment

| | |
|---------------------------------------|--|
| Directives | 2006/95/EC - low voltage directive 86/188/EEC - physical agents (noise) directive |
| Standards | EN/IEC 60730 |
| Product Certifications | CURus EAC CE CSA |
| Ambient air temperature for operation | -4...131 °F (-20...55 °C) UL 60730-1 |
| Ambient Air Temperature for Storage | -40...185 °F (-40...85 °C) |
| Relative humidity | 10...90 % non-condensing |
| IP degree of protection | IP20 |
| Pollution degree | 2 |

Ordering and shipping details

| | |
|-----------------------|------------------------------------|
| Category | 22537-M171 / M172 HVAC CONTROLLERS |
| Discount Schedule | PC12 |
| GTIN | 3606480752766 |
| Nbr. of units in pkg. | 1 |
| Package weight(Lbs) | 9.84 oz (279.0 g) |
| Returnability | No |
| Country of origin | IT |

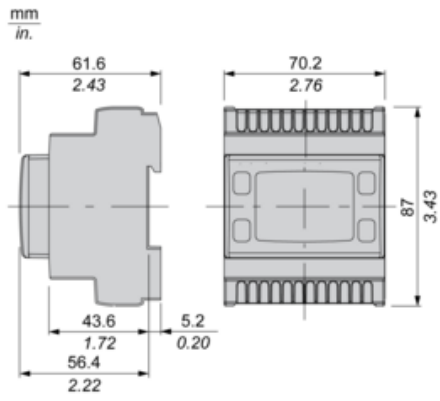
Packing Units

| | |
|------------------------------|------------------------|
| Unit Type of Package 1 | PCE |
| Package 1 Height | 5.12 in (13 cm) |
| Package 1 width | 3.58 in (9.1 cm) |
| Package 1 Length | 7.28 in (18.5 cm) |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 6 |
| Package 2 Weight | 4.18 lb(US) (1.896 kg) |
| Package 2 Height | 5.91 in (15 cm) |
| Package 2 width | 11.81 in (30 cm) |
| Package 2 Length | 15.75 in (40 cm) |

Offer Sustainability

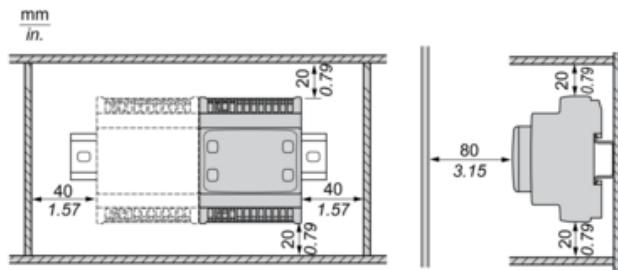
| | |
|----------------------------|---|
| Sustainable offer status | Green Premium product |
| California proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Dimensions

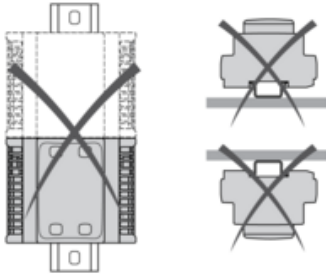


Mounting and Clearance

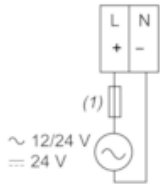
Clearance



Misplacement

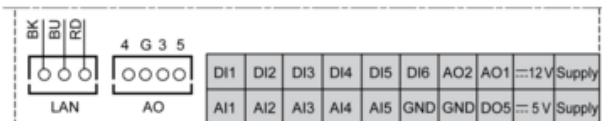
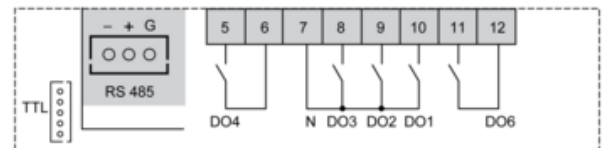
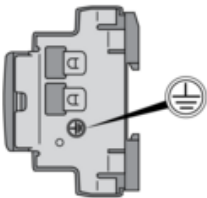


Power Supply



(1) Type T fuse (Controller: 1.25 A , Expansion: 1 A)

Wiring Diagram



- N : Neutral
- GND : Ground
- BK : Black
- BU : Blue
- RD : Red
- AI : Analogue input
- AO : Analogue output
- DI : Digital input
- DO : Digital output