



### 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 solid state SSR with independent common
Discrete output current	2 A relay 2 A triac
Analogue input number	2 configurable 3 analog input NTC
Analogue output number	3 voltage 0...10 V 1 PWM/PPM 20 kHz, 12 V, 35 mA 2 triac 3 A

### Complementary

Number of port	1 LAN expansion bus 1 RS485 - screw terminal block Modbus serial link)
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	12...24 V +/- 10 % AC 24 V +/- 10 % DC
Power consumption in W	4 W
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	Flush mounting
Width	2.91 in (74 mm)
Height	1.26 in (32 mm)
Depth	2.99 in (76 mm)
Net Weight	0.36 lb(US) (0.164 kg)

## Environment

Directives	2006/95/EC - low voltage directive 86/188/EEC - physical agents (noise) directive
Standards	EN/IEC 60730
Product Certifications	CSA CE CURus EAC
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	3606480752797
Nbr. of units in pkg.	1
Package weight(Lbs)	10.19 oz (289 g)
Returnability	No
Country of origin	IT

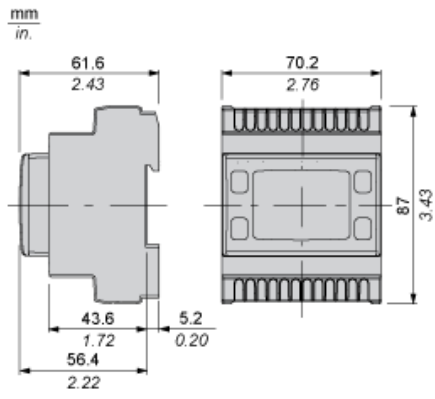
## Packing Units

Unit Type of Package 1	PCE
Package 1 Height	3.58 in (9.1 cm)
Package 1 width	5.12 in (13 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	4.83 lb(US) (2.189 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

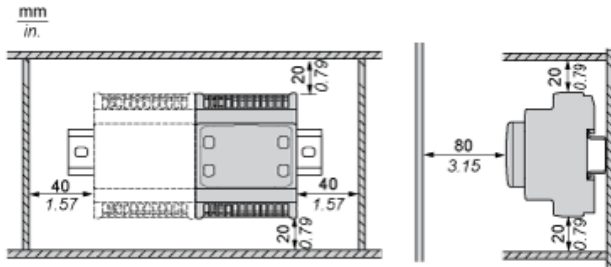
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>
REACH Regulation	<a href="#">REACH Declaration</a>
REACH free of SVHC	Yes
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>
Circularity Profile	<a href="#">End Of Life Information</a>
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Dimensions

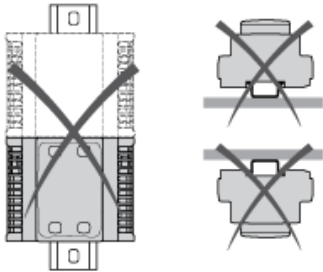


Mounting and Clearance

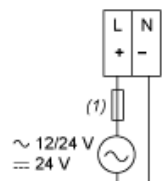
Clearance



Misplacement

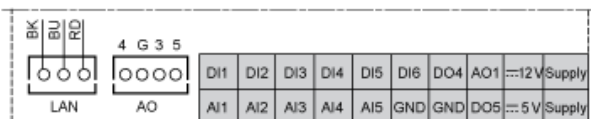
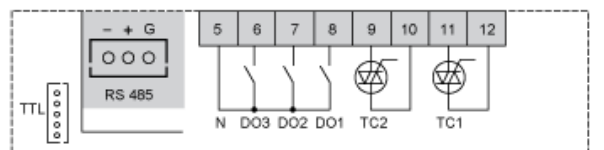
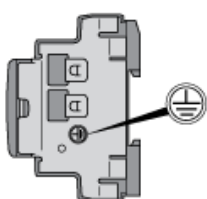


Power Supply



(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
- TC : Triac output