



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 for open collector 3 for relay outputs SPST with same common 2 for solid state SSR with independent common
Discrete output current	2 A for relay 2 A for triac
Analogue input number	2 configurable 3 analog input NTC
Analogue output number	3 voltage, range: 0...10 V 1 PWM/PPM, range: 20 kHz, 12 V, 35 mA 2 triac, range: 3 A

Complementary

Number of port	1 LAN expansion bus 1 RS485 - screw terminal block (Modbus serial link)
Input/output number	5 analog output(s) 6 digital input(s) 5 analog input(s) 6 digital output(s)
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 - resolution: 0.1 °C Current 0...20 mA/4...20 mA Voltage 0...1 V
Sensor power supply	12 V DC at 85 mA 5 V DC at 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 clock at -20...55 °C
Display type	Four 7-segment display units
Overvoltage category	II
Local signalling	6 LEDs (red) 5 LEDs (green) 7 LEDs (amber) for programmable
Mounting support	Flush mounting
Width	74 mm
Height	32 mm
Depth	76 mm
Net weight	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[RETURN]CE[RETURN]cURus[RETURN]EAC
Ambient air temperature for operation	-20...55 °C conforming to UL 60730-1
Ambient air temperature for storage	-40...85 °C
Relative humidity	10...90 % non-condensing
IP degree of protection	IP20
Pollution degree	2

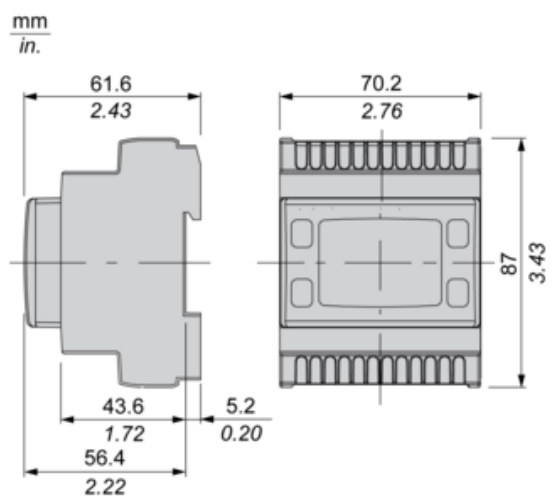
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.1 cm
Package 1 Width	13.0 cm
Package 1 Length	18.5 cm
Package 1 Weight	289.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	6
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.142 kg

Offer Sustainability

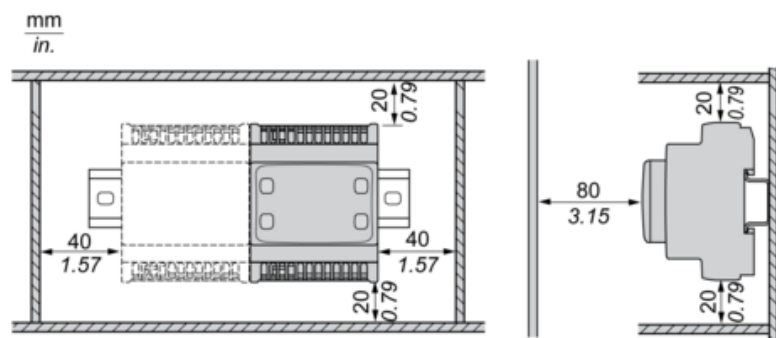
Sustainable offer status	Green Premium product
REACH Regulation	 REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	 China RoHS Declaration
RoHS exemption information	 Yes
Environmental Disclosure	 Product Environmental 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
Upgradeability	Upgradeable through digital modules and upgraded components

Dimensions

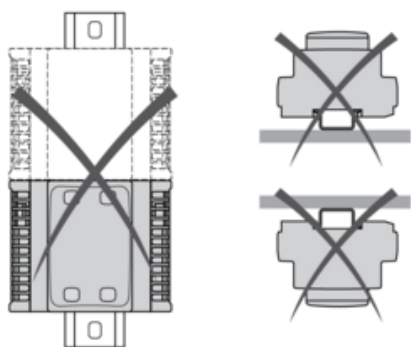


Mounting and Clearance

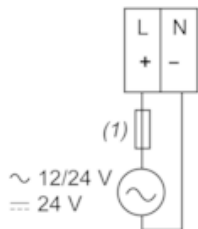
Clearance



Misplacement

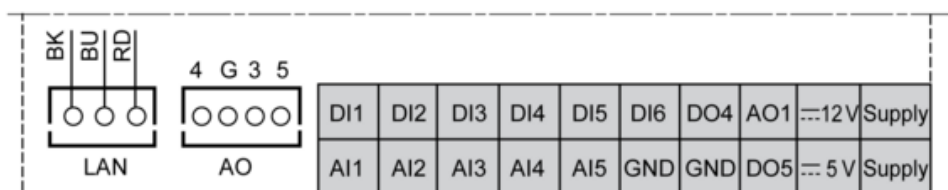
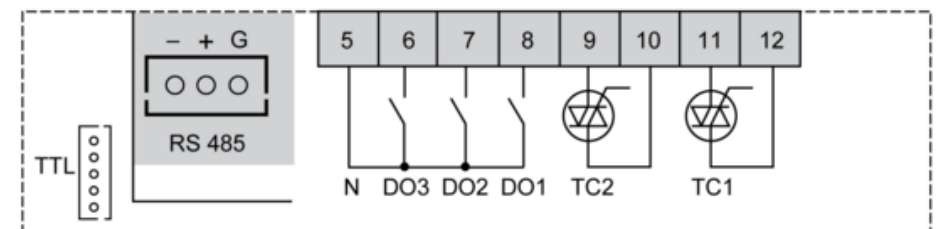
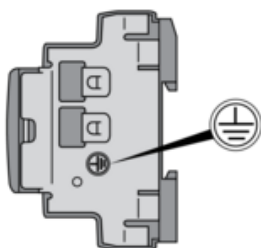


Power Supply



(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