



Main

Range of product	Modicon M171
Product or component type	Controller

Complementary

Number of port	1 Modbus serial link - RS485
Input/output number	8 (total) 4 analog input(s) 2 digital input(s) 2 digital output(s)
Discrete input number	2
Discrete input logic	Sink or source (positive/negative)
Contacts usage	Volt-free contacts
Sensor power supply	5 V DC 12 V DC
Discrete output number	1 for open collector 1 SPST
Analogue input number	2 analog input NTC 2 analog input Pt 1000, range: 4...20 mA or 0...5 V or 0...10 V
[Us] rated supply voltage	24 V +/- 10 % AC/DC
Display type	Without display
Mounting support	DIN rail
Width	70.2 mm
Height	87 mm
Depth	61.6 mm

Environment

Marking	CE
Ambient air temperature for operation	-5...50 °C
IP degree of protection	IP20

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.500 cm
Package 1 Width	9.100 cm
Package 1 Length	18.500 cm
Package 1 Weight	310.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	6
Package 2 Height	15.000 cm

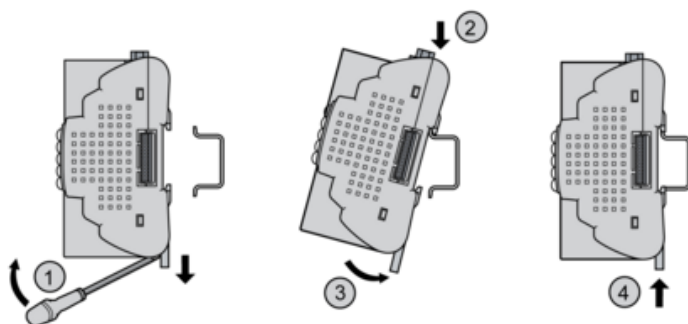
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	2.138 kg

Offer Sustainability

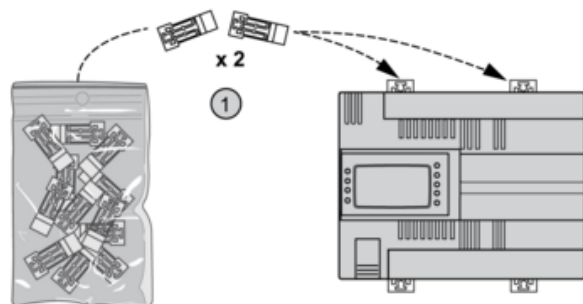
Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
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

Mounting and Clearance

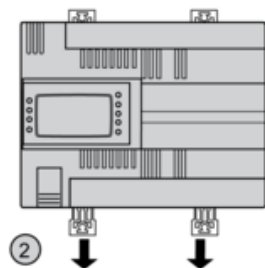
DIN Rail Mounting



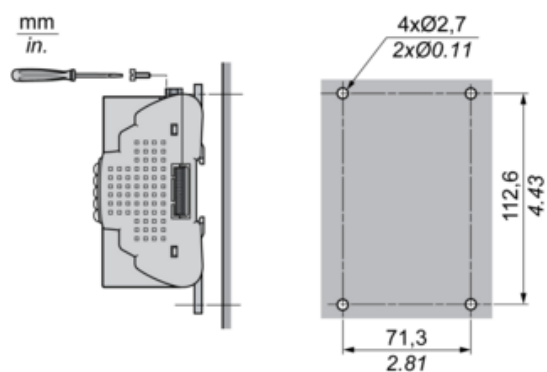
Clips for Panel Mounting



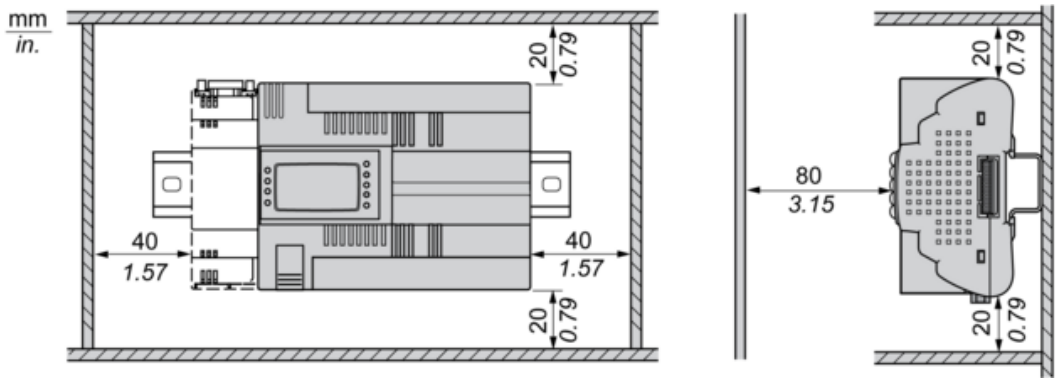
TM172AP12PM



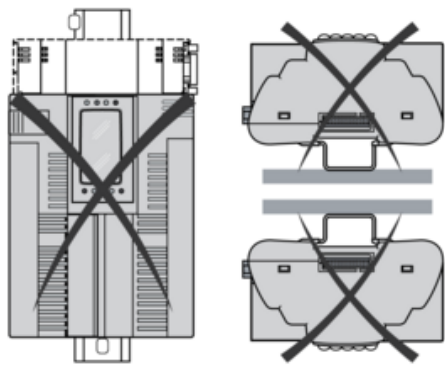
Panel Mounting



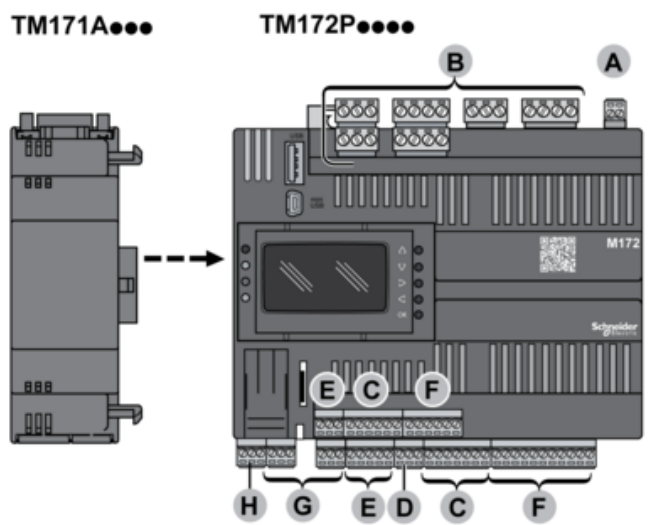
Clearance



Incorrect Mounting Position



Assembling a Module



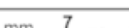
Wiring Sections and Torque

A, C, D, E, F, G, H

mm in.	mm ²	AWG	mm ²	AWG	mm ²	AWG	mm ²	AWG	mm ²	AWG
9 0.35	0.14...1.5	26...16	0.14...1.5	26...16	0.25...1.5	22...16	0.25...0.5	22...20	2 x 0.08...0.5	2 x 28...20
									2 x 0.08...0.75	2 x 28...20
									2 x 0.25...0.34	2 x 24...22
									2 x 0.5	2 x 20

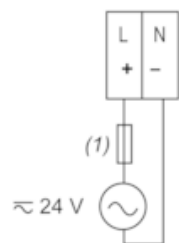
Ø 2,5 mm (0.1 in.)	N•m	0.22...0.25
	lb-in	1.95...2.21

B

								
mm ²	0.2...2.5	0.2...2.5	0.25...2.5	0.25...2.5	2 x 0.2...1	2 x 0.2...1.5	2 x 0.25...1	2 x 0.5...1.5
AWG	24...14	24...14	22...14	22...14	2 x 24...18	2 x 24...16	2 x 22...18	2 x 20...16

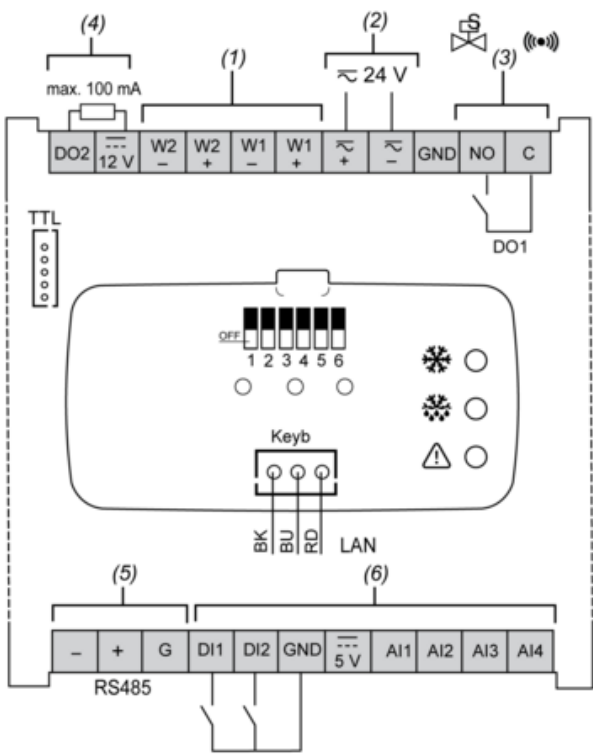
 Ø 3,5 mm (0.14 in.)		<table><tr><td>N•m</td><td>0.5...0.6</td></tr><tr><td>lb-in</td><td>4.42...5.31</td></tr></table>	N•m	0.5...0.6	lb-in	4.42...5.31
N•m	0.5...0.6					
lb-in	4.42...5.31					

Power Supply



(1) Type T fuse 3,15 A

Wiring Diagram



(1)	Electronic Expansion Valve output
(2)	Power supply 24 V ac/dc
(3)	DO1: Relay output 5 A 250 Vac (Solenoid valve/Alarm) C: Common - NO: Normally Open
(4)	DO2: Open collector (Solenoid valve/Alarm)
(5)	Serial port RS485
(6)	Digital and analog inputs GND - Ground