



Main

Range of Product	Modicon M171/M172/M173
Product or Component Type	Programmable controllers
Product Specific Application	HVAC and pumping solution
Variant	Programmable
Total inputs/outputs	22
Discrete input number	6
Discrete output number	3 relay outputs SPST with same common 2 relay outputs SPST with independent common
Discrete output current	5 A relay SPST
Analogue input number	6 configurable by pair 1 configurable
Analogue output number	1 voltage/current 0...10 V or 4...20 mA 3 voltage 0...10 V or PWM (10Hz...2 kHz)

Complementary

Number of port	1 CAN port - screw terminal block 1 USB type C 2 RS485 - screw terminal block Modbus serial link) 1 display port - TTL connector 1 communication module port
Input/output number	6 digital input 5 digital output 7 analog input 4 analog output
Discrete input logic	Sink or source (positive/negative)
Contacts usage	Volt-free contacts
Discrete input voltage	24 V AC/DC
Discrete input current	2.5 mA
Input impedance	20 kOhm
Analogue input type	NTC 103AT-2 Beta 3435 temperature probe - 50...100 °C 0.1 °C 10 kOhm Pt 1000 temperature probe - 50...400 °C 0.1 °C 2 kOhm Voltage 0...10 V 0.001 V > 10 kOhm Voltage 0...5 V 0.001 V 110 kOhm Current 4...20 mA 13 bits 100 Ohm Direct input > 10 kOhm
Measurement accuracy	NTC NK103 Beta 3977 - 40...+110 °C +/- 1 °C NTC NK103 Beta 3977 110...137 °C +/- 1.9 °C NTC 103AT-2 Beta 3435 - 50...110 °C +/- 1 °C PTC - 55...155 °C +/- 1.1 °C Pt 1000 - 100...-50 °C +/- 5 °C Pt 1000 - 50...100 °C +/- 1 °C Pt 1000 100...400 °C +/- 5 °C 0...20 mA 0...4 mA +/- 2 % of full scale +/- 1 digit 0...20 mA 4...20 mA +/- 1 % of full scale +/- 1 digit 4...20 mA +/- 1 % of full scale +/- 1 digit 0...10 V +/- 1 % of full scale +/- 1 digit 0...5 V +/- 1 % of full scale +/- 1 digit hOhm 0...1500 hOhm +/- 8.5 hOhm daOhm 0...300 daOhm +/- 2.5 daOhm
Sensor power supply	5 V DC 50 mA supplied by the controller 24 V DC 125 mA supplied by the controller
[Us] rated supply voltage	24 V +/- 10 % AC 20...38 V DC

Power consumption in W	10 W 24 V AC/DC
Realtime clock	Built-in clock, clock drift <= 30 s/month at -4.0000000000...149.0000000000 °F (-20...65 °C)
Memory Type	1 MB flash 380 kB RAM
Overvoltage category	II
Local signalling	For USB pendrive download status 1 LED (green)
Mounting Support	Panel mounting with accessory DIN rail
Width	2.8 in (72 mm)
Height	4.3 in (110 mm)
Depth	2.4 in (60 mm)
Net Weight	0.379 lb(US) (0.172 kg)

Environment

Directives	2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive
Standards	CAN/CSA-E60730-1 CSA E60730-2-9 EN 60068-2-27 EN 60068-2-6 Fc EN 60730-1 EN 60730-2-9 UL 60730-1 UL 60730-2-9 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-11 UL94 (material V0)
Product Certifications	EAC (pending)[RETURN]CE[RETURN]cURus[RETURN]CSA[RETURN]RCM (pending)
Ambient air temperature for operation	-4.0000000000...149.0000000000 °F (-20...65 °C) UL 60730-1 EN 60730-1 EN 60730-2-9
Ambient Air Temperature for Storage	-22.0000000000...158.0000000000 °F (-30...70 °C)
Relative humidity	5...95 % non-condensing
IP degree of protection	IP20 conforming to EN/IEC 60730
Pollution degree	2
Operating altitude	0...6561.68 ft (0...2000 m)

Ordering and shipping details

Category	US1PC1222537
Discount Schedule	PC12
GTIN	3606487008347
Returnability	Yes
Country of origin	IT

Packing Units

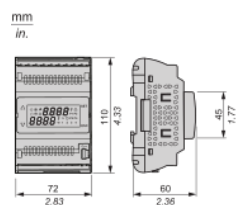
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.756 in (7.000 cm)
Package 1 Width	3.543 in (9.000 cm)
Package 1 Length	5.315 in (13.500 cm)
Package 1 Weight	9.418 oz (267.000 g)
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)

Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	9.480 lb(US) (4.300 kg)

Offer Sustainability

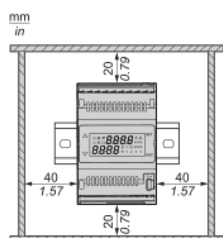
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
Upgradeability	Upgradeable through digital modules and upgraded components

Dimensions

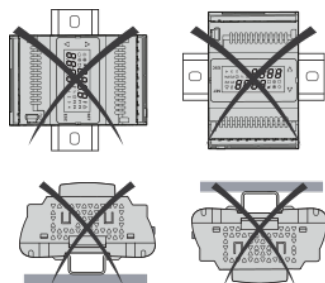


Mounting

Clearance



Misplacement

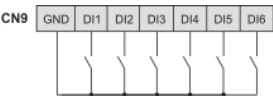


Wiring

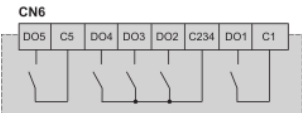
Power supply

24 Vac	24 Vdc
	
(1) Type T fuse 1.25 A	

Digital input

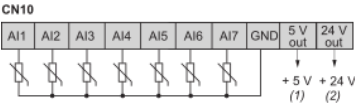


Digital output



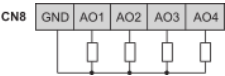
DO1, DO2, DO3, DO4, DO5: relay SPST 3 A 250 Vac

Analog inputs

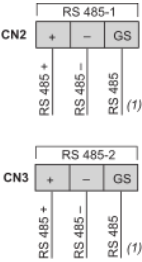


- (1) Max. current : 50 mA.
- (2) Max. current : 125 mA.

Analog Output



CN2, CN3 RS 485 port



(1) Signal Reference