



Main

Range of product	Modicon M171/M172
Product or component type	Programmable controllers
Product specific application	HVAC and pumping solution
Variant	Programmable
Total inputs/outputs	27
Discrete input number	8
Discrete output number	3 for relay outputs SPST with same common 2 for relay outputs SPDT with independent common 2 for solid state, isolated SSR with same common
Discrete output current	8 A for relay SPDT 5 A for relay SPST 0.5 A for solid state, isolated
Analogue input number	2 analog input NTC 4 configurable
Analogue output number	3 voltage/current, range: 4...20 mA or 0...10 V 2 open collector, range: 1 kHz, 12 V, 35 mA

Complementary

Number of port	1 CAN port - screw terminal block 1 USB type A - USB type A female 1 USB type mini B - USB device port Mini-B 1 RS485 - screw terminal block (Modbus serial link)
Input/Output number	6 analog input(s) 5 analog output(s) 8 digital input(s) 7 digital output(s) 1 high-speed counter(s)
Discrete input logic	Sink or source (positive/negative)
Discrete input voltage	24 V AC/DC 48 V DC
Discrete input current	2.5 mA

Input impedance	20 kOhm
Analogue input type	voltage 0...5 V (ratiometric) current 4...20 mA impedance 0...1500 hOhm impedance 0...300 daOhm NTC temperature probe - 50...110 °C - resolution: 0.1 °C (extended) voltage 0...10 V Pt 1000 temperature probe - 200...800 °C - resolution: 0.1 °C NTC temperature probe - 40...150 °C - resolution: 0.1 °C
Sensor power supply	5 V DC at 50 mA 12 V DC at 150 mA
[Us] rated supply voltage	24 V +/- 20 % AC/DC 48 V +/- 20 % DC
Power consumption in W	5 W at 24...48 V AC/DC
Realtime clock	Built-in clock at -10...55 °C
Display type	LCD display - 128 x 64 pixels
Overvoltage category	II
Local signalling	1 LED (red)programmable: 1 LED (yellow)programmable: 1 LED (green)programmable:
Mounting support	Flush mounting
Width	160 mm
Height	96 mm
Depth	10 mm
Product weight	0.35 kg

Environment

Directives	1907/2006/EC - REACH directive 2011/65/EU - RoHS directive 86/188/EEC - physical agents (noise) directive 2006/95/EC - low voltage directive
Standards	EN/IEC 60730
Product certifications	CE CURus EAC CSA
Ambient air temperature for operation	-10...55 °C conforming to UL 60730-1
Ambient air temperature for storage	-20...85 °C
Relative humidity	10...90 % non-condensing
IP degree of protection	IP20
Pollution degree	2

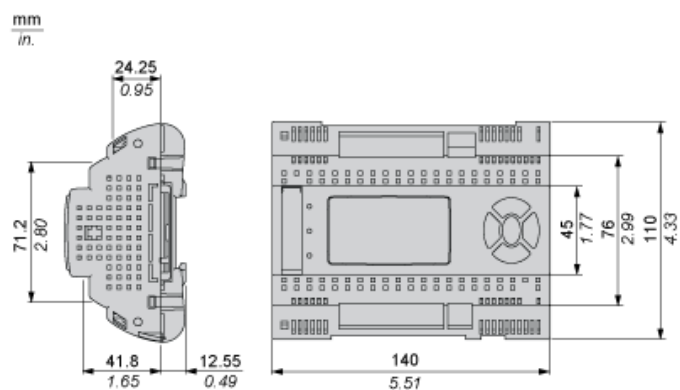
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) 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

Contractual warranty

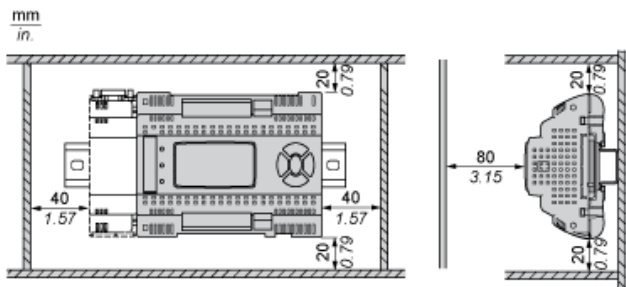
Warranty	18 months
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Dimensions

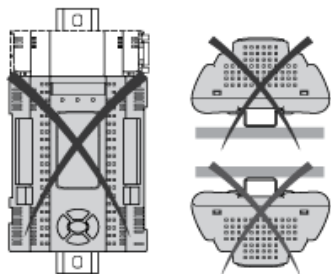


Mounting and Clearance

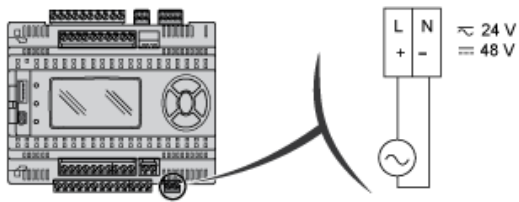
Clearance



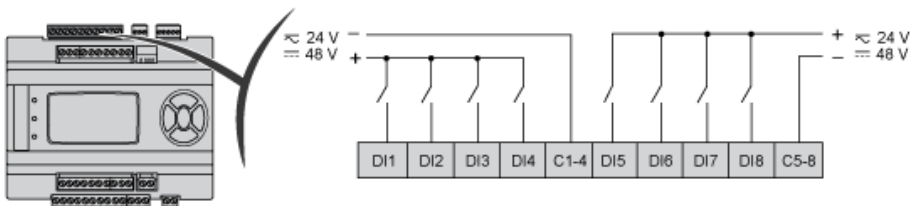
Misplacement



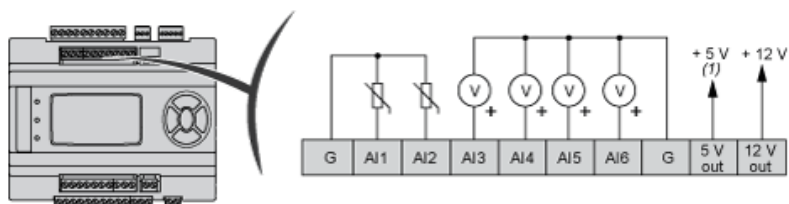
Power Supply



Digital Inputs



Analog Inputs



(1) Max current: 50 mA.
G : Ground

Analog Outputs

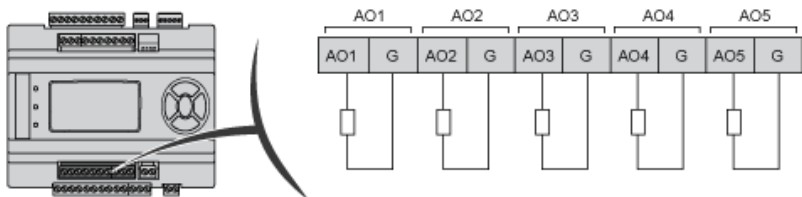
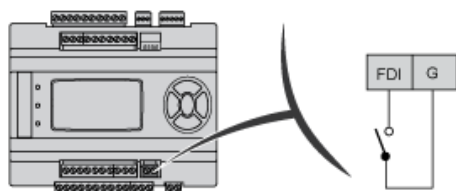
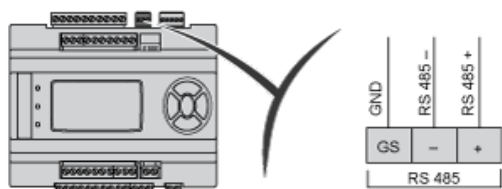


Diagram illustrating the terminal block configuration for the 12A max power supply. The terminal block includes terminals C1, DO1, DO1, C2, DO2, DO2, DO3, DO4, C34, DO5, DO6, DO7, and C567. The terminals are grouped into three sections: 8A (DO1, DO2), 5A (DO3, DO4), and 12A max (DO5, DO6, DO7). The DO3 and DO4 terminals are labeled as 2 SSR. The diagram also shows the physical unit with the terminal block and a callout line indicating the connection point.

Fast Digital Input



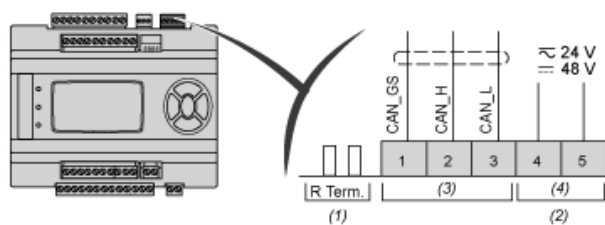
Serial Line Port (RS 485)



Apply 120 Omega terminal resistance

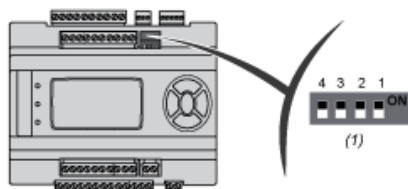
GS serial GND isolated from G

CAN Expansion Bus



- (1) CAN terminal resistance
- (2) Output for remote keyboard
- (3) CANOPEN
- (4) Power Out

4 DipSwitches



(1) 4 DIP SWITCH
LOW Address