



Main

| | |
|------------------------------|--|
| Range of product | Modicon M171/M172 |
| Product or component type | Programmable controllers |
| Product specific application | HVAC and pumping solution |
| Variant | Programmable |
| Number of inputs/outputs | 27 |
| Discrete input number | 8 |
| Discrete output number | 3 relay outputs SPST with same common 2 relay outputs SPST with same common 2 relay outputs SPDT with independent common |
| Discrete output current | 8 A relay SPDT 5 A relay SPST |
| 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 | 48 V DC 24 V AC/DC |
| Discrete input current | 2.5 mA |
| Input impedance | 20 kOhm |
| Analogue input type | Current 4...20 mA Voltage 0...10 V Impedance 0...1500 hOhm Impedance 0...300 daOhm Voltage 0...5 V (ratiometric) Pt 1000 temperature probe - 200...800 °C - res.: 0.1 °C NTC temperature probe - 50...110 °C - res.: 0.1 °C (extended) NTC temperature probe - 40...150 °C - res.: 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 realtime clock at 14...131 °F (-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 | 6.3 in (160 mm) |
| Height | 3.78 in (96 mm) |
| Depth | 0.39 in (10 mm) |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

| | |
|----------------|-----------------------|
| Product weight | 0.71 lb(US) (0.32 kg) |
|----------------|-----------------------|

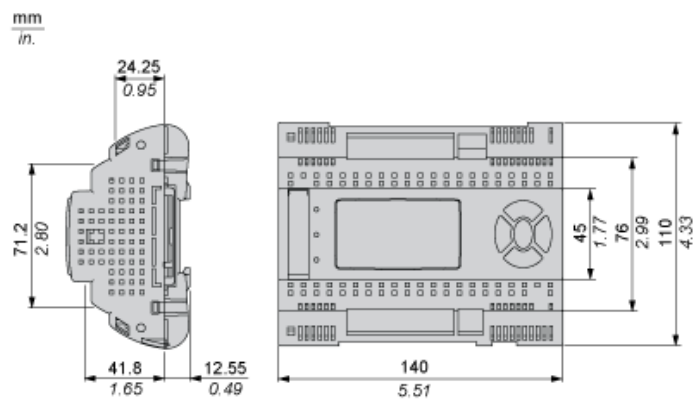
Environment

| | |
|---------------------------------------|---|
| directives | 2006/95/EC - low voltage directive 86/188/EEC - physical agents (noise) directive 2011/65/EU - RoHS directive 1907/2006/EC - REACH directive |
| standards | EN/IEC 60730 |
| product certifications | CE CSA CURus EAC |
| ambient air temperature for operation | 14...131 °F (-10...55 °C) conforming to UL 60730-1 |
| ambient air temperature for storage | -4...185 °F (-20...85 °C) |
| relative humidity | 10...90 % non-condensing |
| IP degree of protection | IP20 |
| pollution degree | 2 |

Offer Sustainability

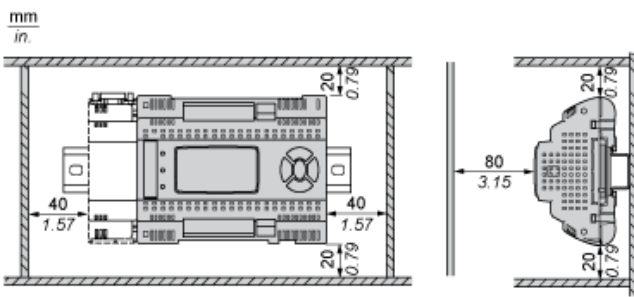
| | |
|---|---|
| Green Premium product | Green Premium product |
| Compliant - since 1426 - Schneider Electric declaration of conformity | Compliant - since 1426 - Schneider Electric declaration of conformity |
| Reference not containing SVHC above the threshold | Reference not containing SVHC above the threshold |
| Available | Available |
| Available | Available |
| WARNING: This product can expose you to chemicals including: | 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. | 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 | For more information go to www.p65warnings.ca.gov |

Dimensions

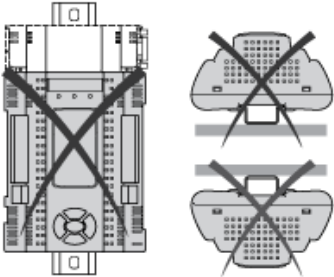


Mounting and Clearance

Clearance



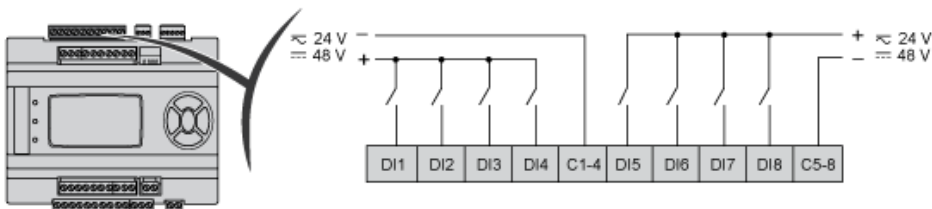
Misplacement



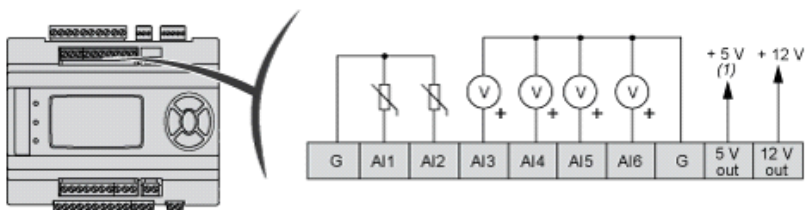
Power Supply



Digital Inputs



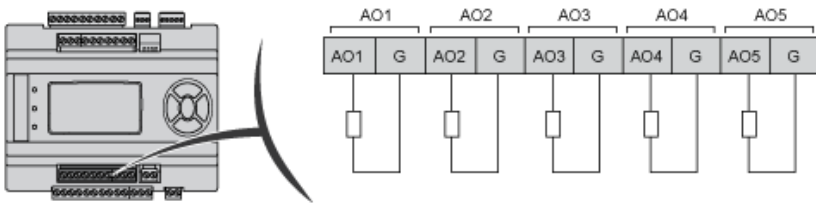
Analog Inputs



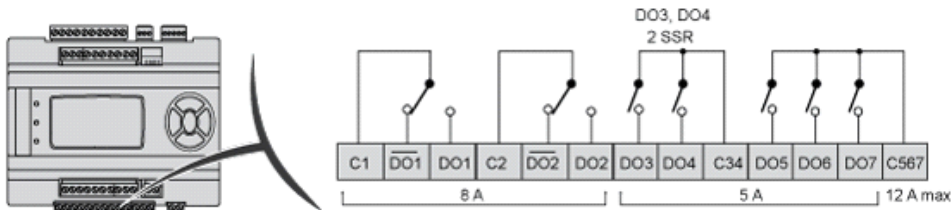
(1) Max current: 50 mA.

G : Ground

Analog Outputs

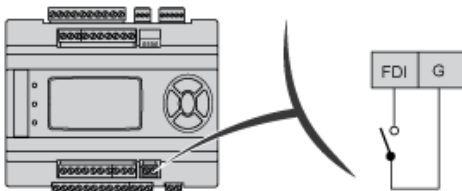


Digital Outputs

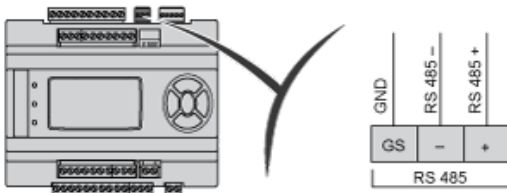


C : common

Fast Digital Input



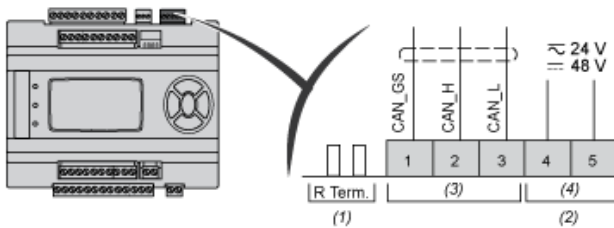
Serial Line Port (RS 485)



Apply 120 Ohm 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