

# Product data sheet

Specifications



## Modicon M171 Performance Display 27 I/Os Modbus, 2 SSR

TM171PDM27S

**Product availability: Non-Stock - Not normally stocked in distribution facility**

### 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 relay outputs SPST with same common 2 relay outputs SPDT with independent common 2 solid state, isolated SSR with same common
Discrete output current	8 A relay SPDT 5 A relay SPST 0.5 A solid state, isolated
Analogue input number	2 analog input NTC 4 configurable
Analogue output number	3 voltage/current 4...20 mA or 0...10 V 2 open collector 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 5 analog output 8 digital input 7 digital output 1 high-speed counter
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 0.1 °C extended) voltage 0...10 V Pt 1000 temperature probe - 200...800 °C 0.1 °C NTC temperature probe - 40...150 °C 0.1 °C
Sensor power supply	5 V DC 50 mA 12 V DC 150 mA

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

[Us] rated supply voltage	24 V +/- 20 % AC/DC 48 V +/- 20 % DC
Power consumption in W	5 W 24...48 V AC/DC
Realtime clock	Built-in clock at 14...131 °F (-10...55 °C)
Display type	LCD display - 128 x 64 pixels
Overvoltage category	II
Local signalling	for programmable 1 LED (red) for programmable 1 LED (yellow) for programmable 1 LED (green)
Mounting Support	Flush mounting
Width	6.3 in (160 mm)
Height	3.8 in (96 mm)
Depth	0.4 in (10 mm)
Net Weight	0.77 lb(US) (0.35 kg)

## Environment

Directives	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	14...131 °F (-10...55 °C) 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

## Ordering and shipping details

Category	US1PC1222537
Discount Schedule	PC12
GTIN	3606480752841
Returnability	No
Country of origin	IT

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.12 in (13.0 cm)
Package 1 Width	3.58 in (9.1 cm)
Package 1 Length	7.28 in (18.5 cm)
Package 1 Weight	18.0 oz (509.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	6

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<b>Package 2 Height</b>	5.91 in (15.0 cm)
<b>Package 2 Width</b>	11.81 in (30.0 cm)
<b>Package 2 Length</b>	15.75 in (40.0 cm)
<b>Package 2 Weight</b>	7.498 lb(US) (3.401 kg)

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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)


[How we assess product sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

 Mercury Free

 Rohs Exemption Information [Yes](#)

## Certifications & Standards

**Reach Regulation** [REACH Declaration](#)

**Eu Rohs Directive** Pro-active compliance (Product out of EU RoHS legal scope)

**China Rohs Regulation** [China RoHS declaration](#)

**Environmental Disclosure** [Product Environmental Profile](#)

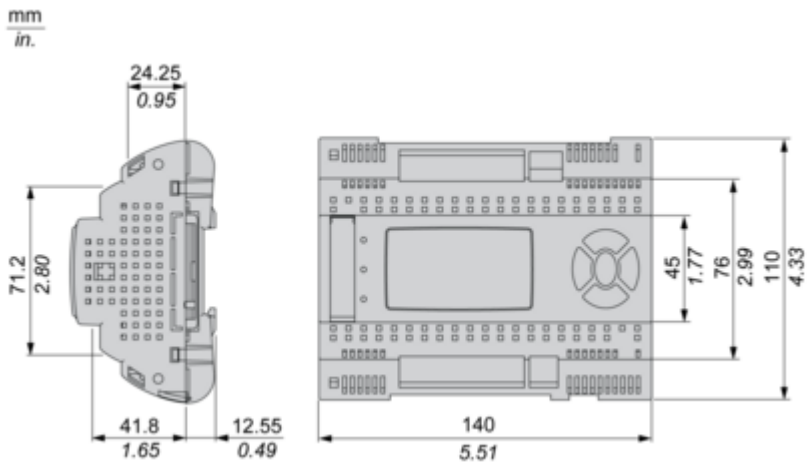
**Circularity Profile** [End of Life Information](#)

**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](http://www.P65Warnings.ca.gov)

Dimensions Drawings

Dimensions

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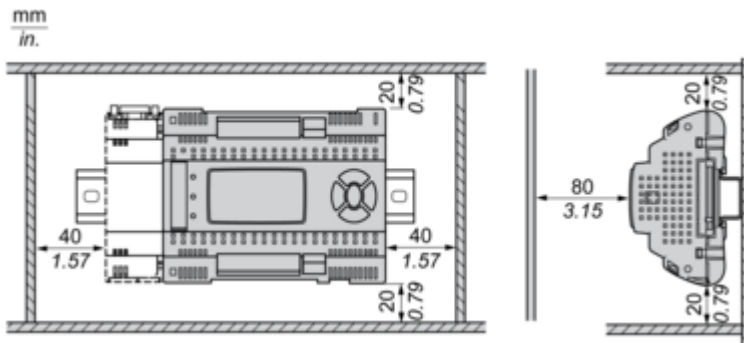


Mounting and Clearance

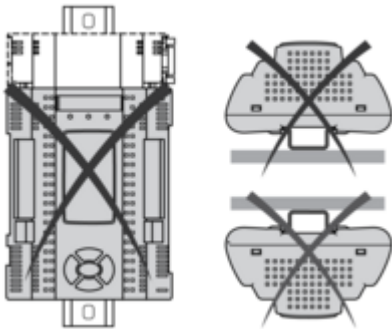
Mounting and Clearance

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Clearance



Misplacement



Connections and Schema

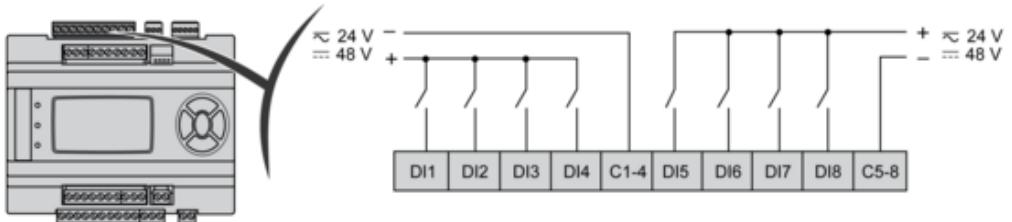
Power Supply

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Digital Inputs

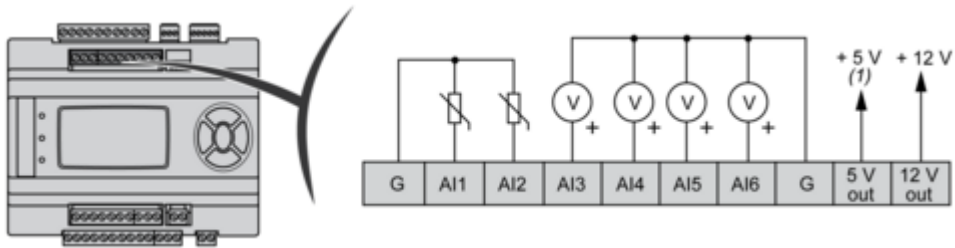
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Analog Inputs

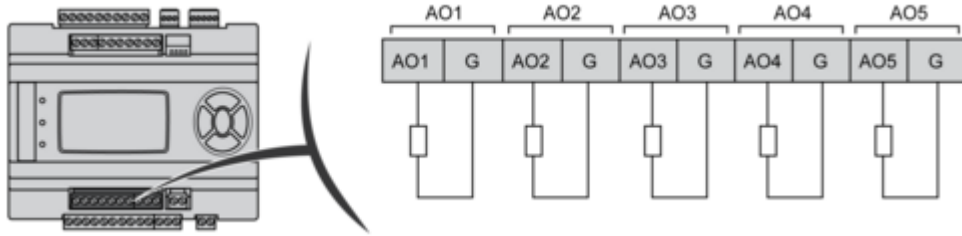
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(1) Max current: 50 mA.  
**G** : Ground

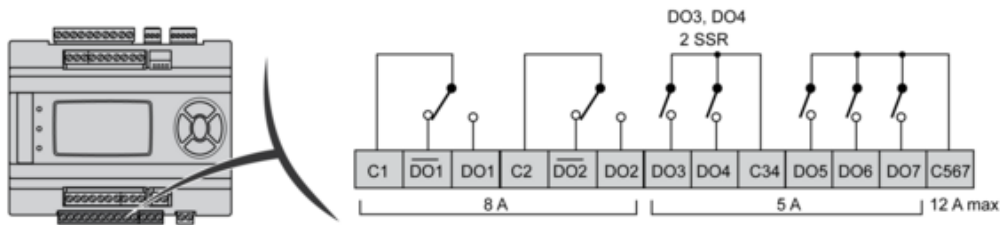
Analog Outputs

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Digital Outputs

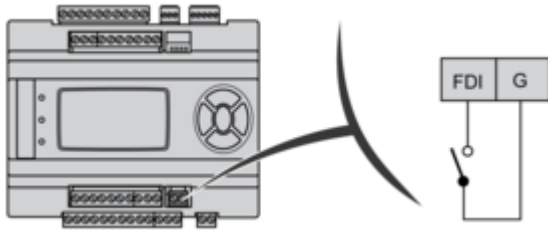
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C : common

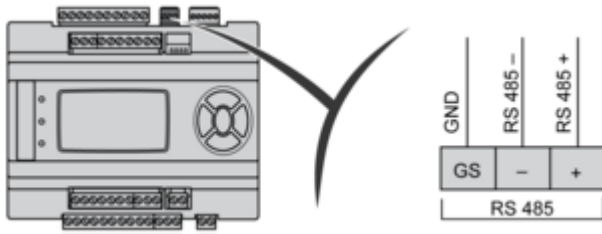
Fast Digital Input

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Serial Line Port (RS 485)

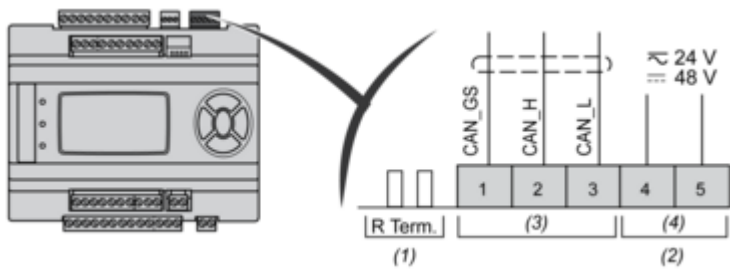
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Apply 120 Ohm terminal resistance  
GS serial GND isolated from G

CAN Expansion Bus

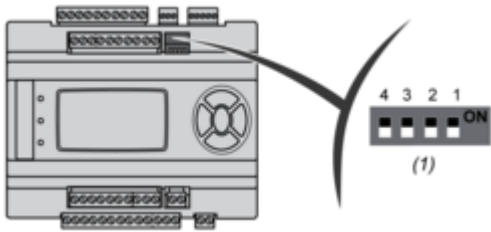
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- (1) CAN terminal resistance
- (2) Output for remote keyboard
- (3) CANOPEN
- (4) Power Out

4 DipSwitches

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(1) 4 DIP SWITCH  
LOW Address