Product datasheet

Specifications



Modicon M171 Performance Display 27 I/Os, Modbus

TM171PDM27R

Discontinued on: 8 Jun 2026

To be discontinued

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 SPST with same common 2 for relay outputs SPDT with independent common
Discrete output current	8 A for relay SPDT 5 A for 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	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

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

Disclaimer: 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

[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) for programmable 1 LED (yellow) for programmable 1 LED (green) for programmable
Mounting support	Flush mounting
Width	160 mm
Height	96 mm
Depth	10 mm
Net weight	0.32 kg

Environment

Directives	86/188/EEC - physical agents (noise) directive 2006/95/EC - low voltage directive
Standards	EN/IEC 60730
Product certifications	CE CSA cURus EAC
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.0 cm
Package 1 Width	9.1 cm
Package 1 Length	18.5 cm
Package 1 Weight	505.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	6
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.409 kg

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Total lifecycle Carbon footprint	**792 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**44 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**746 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 kg CO2 eq.**
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
EU RoHS Directive	Compliant By Exemption
REACh Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer

Lifetime extension

Updatability	**Yes**

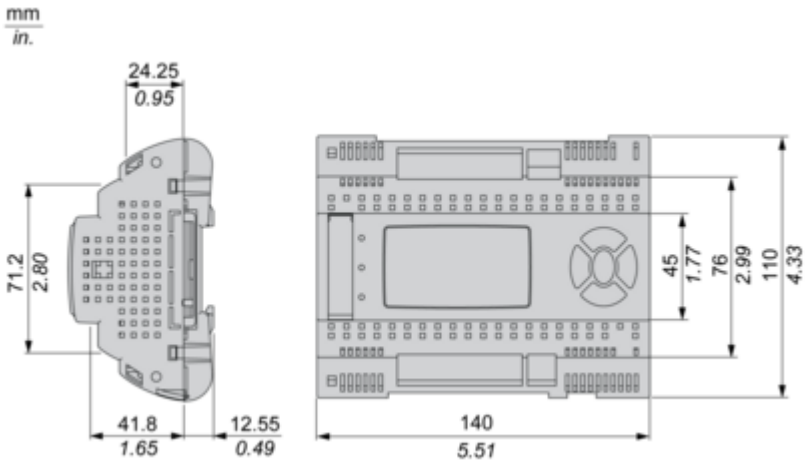
Use Again

Repack and remanufacture

Recyclability potential, in %	**0**
End of life manual availability	End of Life Information
Removable battery	**No**
Take-back	**No**
WEEE Label	**The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins**

Dimensions Drawings

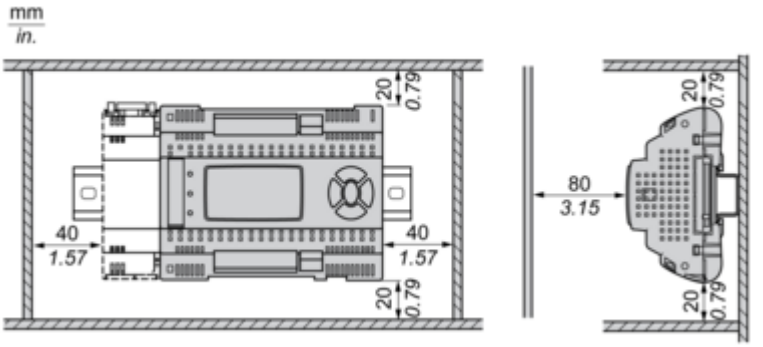
Dimensions



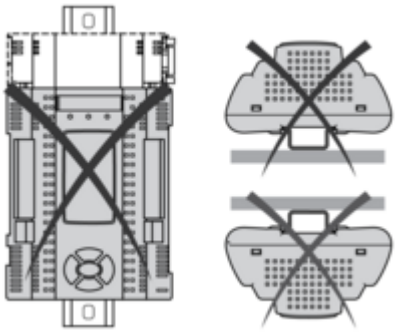
Mounting and Clearance

Mounting and Clearance

Clearance

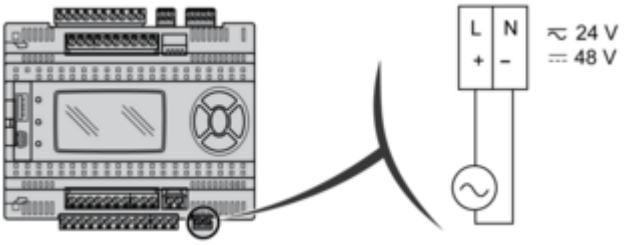


Misplacement

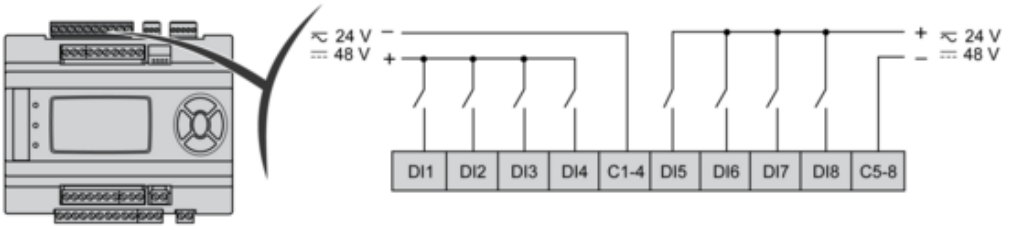


Connections and Schema

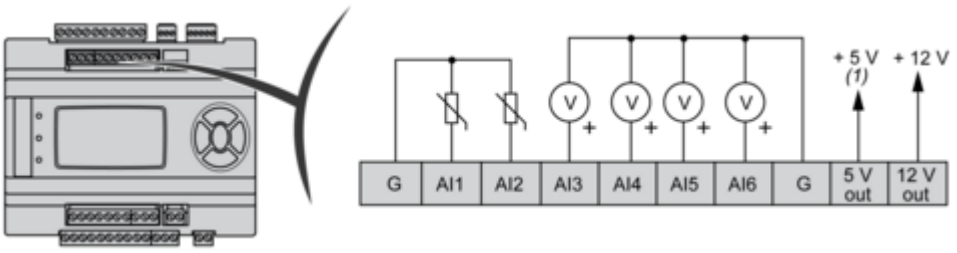
Power Supply



Digital Inputs

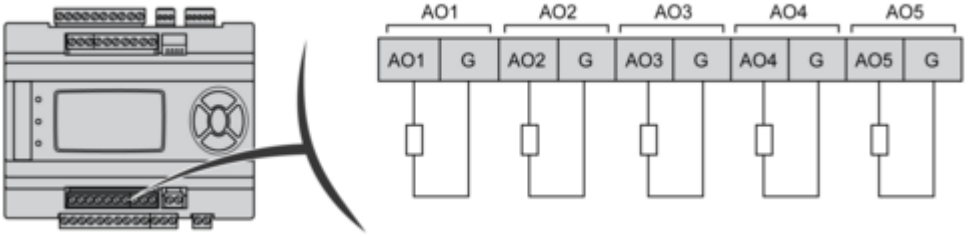


Analog Inputs

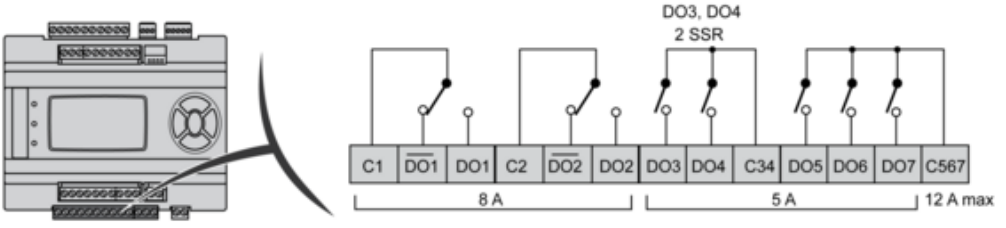


(1) Max current: 50 mA.
G : Ground

Analog Outputs

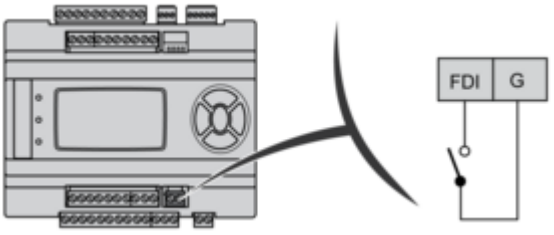


Digital Outputs

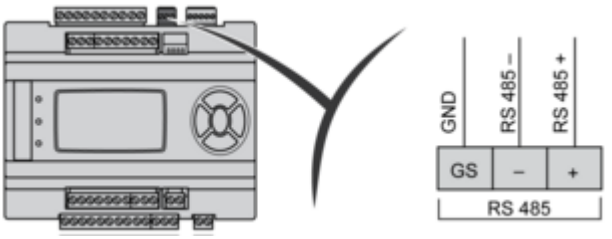


C : common

Fast Digital Input

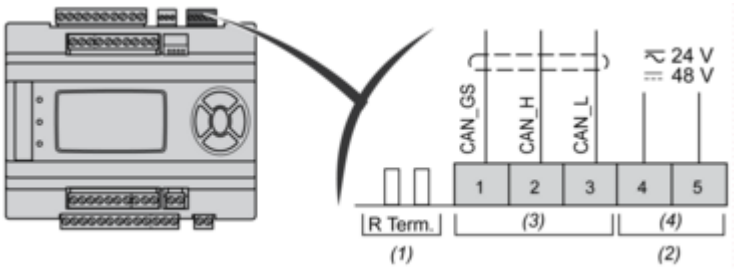


Serial Line Port (RS 485)



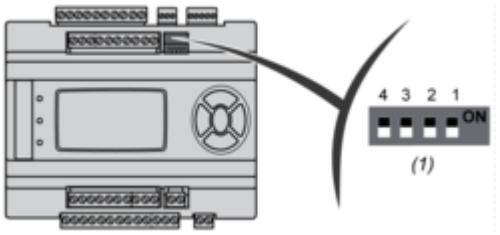
Apply 120 Omega terminal resistance
GS serial GND isolated from G

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