Product data sheet

Specifications

Green Premium™

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

TM171PDM27S

⚠ Discontinued on: Jan 23, 2021

⚠ **Discontinued**

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

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

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Sensor power supply	5 V DC 50 mA 12 V DC 150 mA
[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	5.1 in (13.0 cm)
Package 1 Width	3.6 in (9.1 cm)
Package 1 Length	7.3 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
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	7.498 lb(US) (3.401 kg)

Sustainability ![Green Premium]

Green Premium^{TM} 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_2 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 ›

Guide to assess a product's sustainability ›

Transparency   RoHS/REACh

Resource performance

✅ Upgradeable Through Digital Modules And Upgraded Components

Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information   Yes

Certifications & Standards
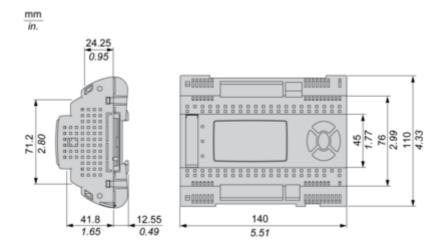
Reach Regulation   REACh Declaration

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

China Rohs Regulation   China RoHS declaration

Environmental Disclosure   Product Environmental Profile

Weee   The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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
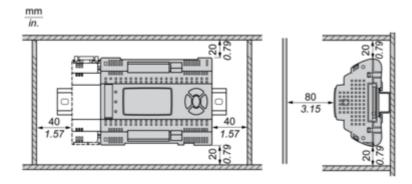
Dimensions Drawings

Dimensions
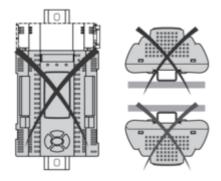
Mounting and Clearance

Clearance

Misplacement
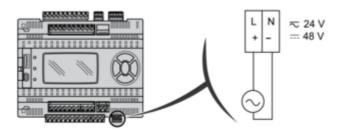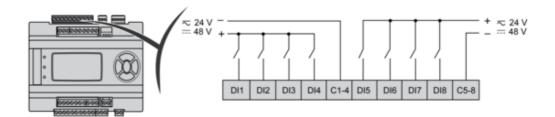
Connections and Schema

Power Supply
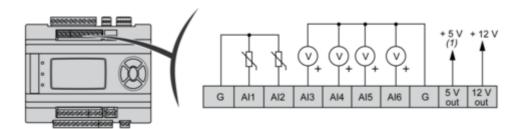
Digital Inputs
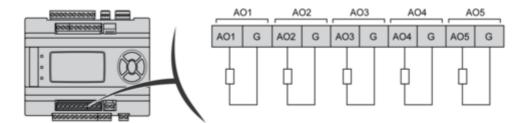
Analog Inputs
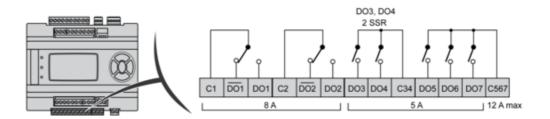
(1) Max current: 50 mA.
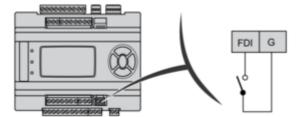**G :** Ground

Analog Outputs

Digital Outputs

DO3, DO4
2 SSR

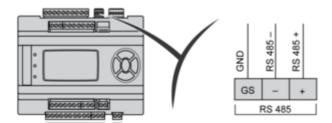| C1	$\overline{DO1}$	DO1	C2	$\overline{DO2}$	DO2	DO3	DO4	C34	DO5	DO6	DO7	C567

8 A   5 A   12 A max
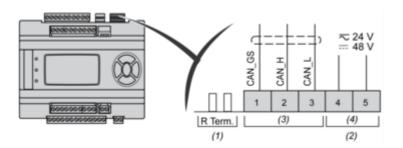
C : common

Fast Digital Input
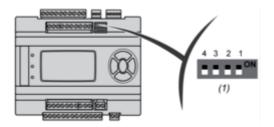
Serial Line Port (RS 485)

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