Product data sheet

Specifications





Controller, Modicon M171/M172/ M173, performance display 27 IO, Modbus

TM171PDM27R

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 SPST with same common 2 relay outputs SPDT with independent 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 420 mA or 010 V 2 open collector 1 kHz, 12 V, 35 mA			
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 SPST with same common Discrete output current 8 A relay 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 420 mA or 010 V	Range of Product	Modicon M171/M172	
Variant Programmable Total 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 420 mA or 010 V	Product or Component Type	Programmable controllers	
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2 relay outputs SPST with same common 2 relay outputs SPDT with independent 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 420 mA or 010 V	Discrete input number	8	
Analogue input number 2 analog input NTC 4 configurable Analogue output number 3 voltage/current 420 mA or 010 V	Discrete output number	2 relay outputs SPST with same common	
4 configurable Analogue output number 3 voltage/current 420 mA or 010 V	Discrete output current	•	
	Analogue input number		
	Analogue output number	· · · · · · · · · · · · · · · · · · ·	

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 05 V ratiometric)
	current 420 mA
	impedance 01500 hOhm
	impedance 0300 daOhm
	NTC temperature probe - 50110 °C 0.1 °C extended)
	voltage 010 V
	Pt 1000 temperature probe - 200800 °C 0.1 °C
	NTC temperature probe - 40150 °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 2448 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	0.71 lb(US) (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	14131 °F (-1055 °C) UL 60730-1	
Ambient Air Temperature for Storage	-4185 °F (-2085 °C)	
Relative humidity	1090 % non-condensing	
IP degree of protection	IP20	
Pollution degree	2	

Ordering and shipping details

Category	US1PC1222537	
Discount Schedule	PC12	
GTIN	3606480752834	
Returnability	No	
Country of origin	ΙΤ	

Packing Units

0	
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	17.8 oz (505.0 g)
Unit Type of Package 2	\$02
Number of Units in Package 2	6

Package 2 Height	5.91 in (15.0 cm)	
Package 2 Width	11.81 in (30.0 cm)	
Package 2 Length	15.75 in (40.0 cm)	
Package 2 Weight	7.516 lb(US) (3.409 kg)	

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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

Yes

Learn more about Green Premium >

How we assess product sustainability >



Transparency RoHS/REACh

Well-being performance



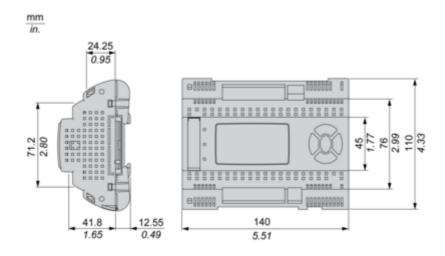
Rohs Exemption Information

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

Dimensions Drawings

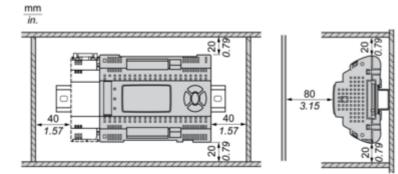
Dimensions



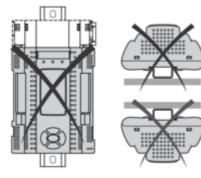
Mounting and Clearance

Mounting and Clearance

Clearance



Misplacement

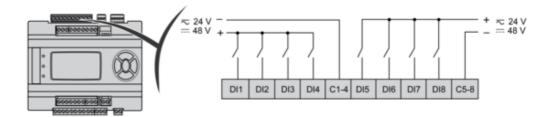


Connections and Schema

Power Supply

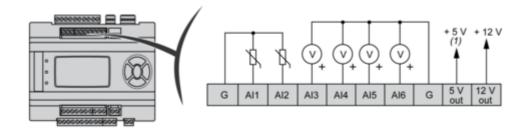


Digital Inputs



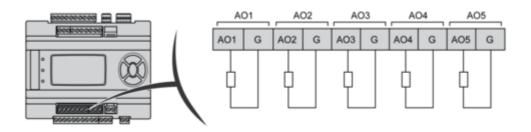
Product data sheet

Analog Inputs

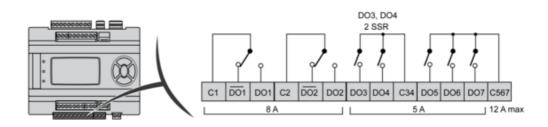


(1) Max current: 50 mA. G : Ground

Analog Outputs

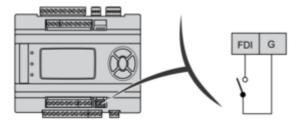


Digital Outputs

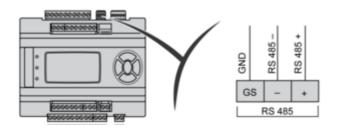


C : common

Fast Digital Input

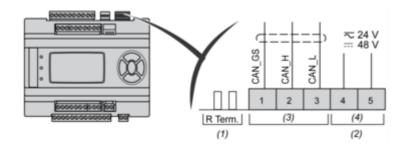


Serial Line Port (RS 485)



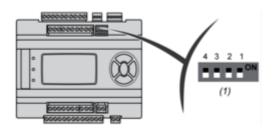
Apply 120 Omega terminal resistance GS serial GND isolated from G

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