TM172PDG28R

Modicon M172 Performance Display 28 I/Os, Ethernet, Modbus





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	28
Discrete input number	8
Discrete output number	1 relay outputs SPDT with independent common 3 relay outputs SPST with same common 2 relay outputs SPST with same common 2 relay outputs SPST with independent common
Discrete output current	1 A relay SPDT 3 A relay SPST
Analogue input number	8 configurable by pair
Analogue output number	2 voltage 010 V 2 voltage/current 420 mA or 010 V or PWM (2 kHz)

Complementary

1 CAN port - screw terminal block 1 USB type A - USB type A female 1 USB type mini B - USB device port Mini-B 2 RS485 - screw terminal block Modbus serial link or BACnet MS/TP) 1 Ethernet - RJ45 Modbus TCP and BACnet IP with webserver) 8 digital input 8 analog input 4 analog output	
8 analog input	
8 digital output	
Sink or source (positive/negative)	
24 V AC/DC	
2.5 mA	
20 kOhm	
Impedance 01500 hOhm Impedance 0300 daOhm NTC temperature probe - 50110 °C 0.1 °C extended) Voltage 010 V NTC temperature probe - 40150 °C 0.1 °C Current 020 mA/420 mA PTC temperature probe - 55150 °C 0.1 °C Voltage 05 V absolute or ratiometric) Pt 1000 temperature probe - 200850 °C 0.1 °C	
5 V DC 50 mA supplied by the controller 24 V DC 150 mA supplied by the controller	
24 V +/- 10 % AC 2038 V DC	
15 W 24 V AC/DC	
Built-in -4140 °F (-2060 °C)	
Backlit LCD - 128 x 64 pixels	
II .	
For programmable 1 LED (red) For programmable 1 LED (yellow) For programmable 1 LED (green) For power 1 LED (green)	

Mounting Support	Panel mounting with accessory DIN rail	
Width	5.67 in (144 mm)	
Height	4.33 in (110 mm)	
Depth	2.38 in (60.5 mm)	
Product Weight	0.66 lb(US) (0.3 kg)	

Environment

Directives	86/188/EEC - physical agents (noise) directive 2006/95/EC - low voltage directive	
Standards	EN/IEC 60730	
Product Certifications	EAC (pending) CSA (pending) CE CURus (pending)	
Ambient air temperature for operation	-4140 °F (-2060 °C) UL 60730-1 -4149 °F (-2065 °C) with derating UL 60730-1	
Ambient Air Temperature for Storage	-22158 °F (-3070 °C)	
Relative humidity	595 % non-condensing	
IP degree of protection	IP20	
Pollution degree	2	

Ordering and shipping details

Category	22537 - M171 / M172 HVAC CONTROLLERS
Discount Schedule	PC12
GTIN	3606480894855
Nbr. of units in pkg.	1
Package weight(Lbs)	14.42 oz (408.9 g)
Returnability	No
Country of origin	IT

Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	5.31 in (13.5 cm)	
Package 1 width	3.54 in (9 cm)	
Package 1 Length	7.32 in (18.6 cm)	
Unit Type of Package 2	S02	
Number of Units in Package 2	6	
Package 2 Weight	5.99 lb(US) (2.719 kg)	
Package 2 Height	5.91 in (15 cm)	
Package 2 width	11.81 in (30 cm)	
Package 2 Length	15.75 in (40 cm)	

Offer Sustainability

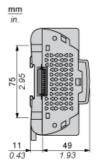
Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EPEU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	€Yes	
China RoHS Regulation	[™] China RoHS Declaration	
Environmental Disclosure	Product Environmental Profile	

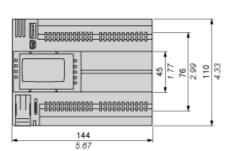
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Product data sheet Dimensions Drawings

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Dimensions

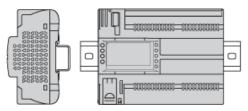




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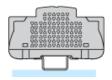
Mounting Positions

Correct Mounting Position

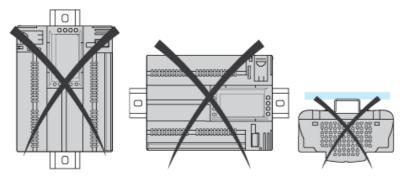


Acceptable Mounting Position

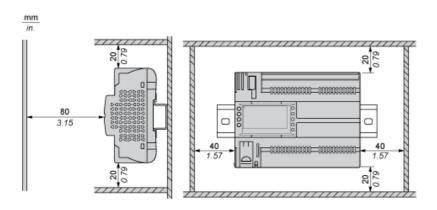
Controller can be mounted horizontally upward with a temperature derating (maximum ambient temperature: 60 °C (140 °F)).



Incorrect Mounting Position



Clearance



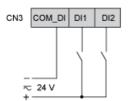
Product data sheet Connections and Schema

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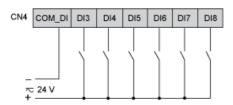
Power Supply

24 Vac	24 Vdc
~ 24 V (1) (1) (1)	== 24 V

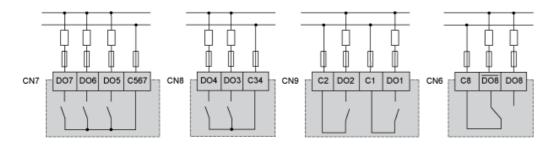
CN3 Fast Digital Inputs



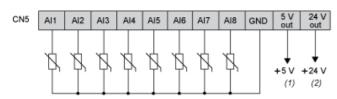
CN4 Digital Inputs



CN7, CN8, CN9, CN6 High Voltage Relay SPST Digital Output

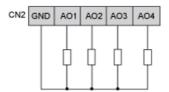


CN5 Analog Inputs



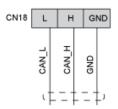
Max. current : 50 mA.
 Max. current : 150 mA.

CN2 Analog Outputs

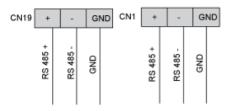


AO3, AO4 can be used also as PWM generator, up to 2kHz.

CN18 CAN Expansion Bus Port



CN19, CN1 CAN Expansion Bus Port



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