Product data sheet
Characteristics

TM171OBM22R
Modicon M171 Optimized Blind 22 I/Os, Modbus

Product availability: Stock - Normally stocked in distribution facility

Main

Range of product	Modicon M171/M172
Product or component type	Controller
Product specific application	HVAC and pumping solution
Variant	Programmable
Total inputs/outputs	22
Discrete input number	6
Discrete output number	1 open collector 3 relay outputs SPST with same common 2 relay outputs SPST with independent common
Discrete output current	2 A relay
Analogue input number	2 configurable 3 analog input NTC
Analogue output number	3 voltage 0...10 V 2 PWM/PPM 20 kHz, 12 V, 35 mA

Complementary

Number of port	1 LAN expansion bus 1 RS485 - screw terminal block Modbus serial link)
Input/output number	5 analog output 6 digital input 5 analog input 6 digital output
Discrete input logic	Sink or source (positive/negative)
Contacts usage	Volt-free contacts
Analogue input type	Voltage 0...5 V ratiometric) Voltage 0...10 V Current 0...20 mA/4...20 mA Voltage 0...1 V Temperature probe - 50...100 °C 0.1 °C
Sensor power supply	12 V DC 85 mA 5 V DC 20 mA
[Us] rated supply voltage	24 V 12...24 V AC
Realtime clock	Built-in -4…131 °F (-20…55 °C)
Display type	Four 7-segment display units
Overvoltage category	II
Local signalling	6 LEDs red) 5 LEDs green) Programmable 7 LEDs amber)
Mounting support	DIN rail
Width	2.76 in (70.2 mm)
Height	3.43 in (87 mm)
Depth	2.43 in (61.6 mm)
Net weight	0.42 lb(US) (0.19 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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.
It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof.
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Environment

Directives	2006/95/EC - low voltage directive 2011/65/EU - RoHS directive 1907/2006/EC - REACH directive 86/188/EEC - physical agents (noise) directive
Standards	EN/IEC 60730
Product certifications	EAC CSA CE CURus
Ambient air temperature for operation	-4…131 °F (-20…55 °C) UL 60730-1
Ambient air temperature for storage	-40…185 °F (-40…85 °C)
Relative humidity	10…90 % non-condensing
IP degree of protection	IP20
Pollution degree	2

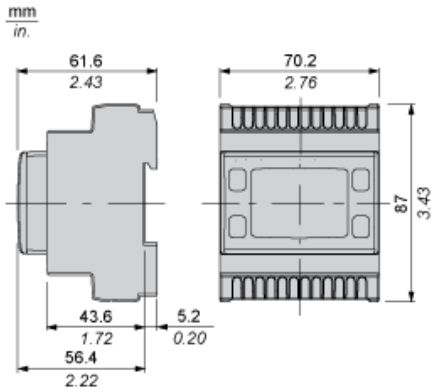
Ordering and shipping details

Category	22537 - M171 / M172 HVAC CONTROLLERS
Discount Schedule	PC12
GTIN	00785901705864
Package weight(Lbs)	0.27 kg (0.59 lb(US))
Returnability	Yes
Country of origin	IT

Offer Sustainability

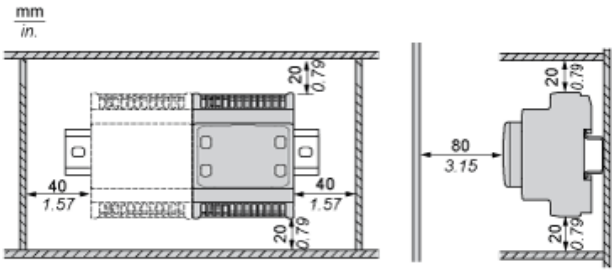
Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds which is known to the State of California to cause Carcinogen & Reproductive harm. For more information go to www.p65warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU 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.

Dimensions

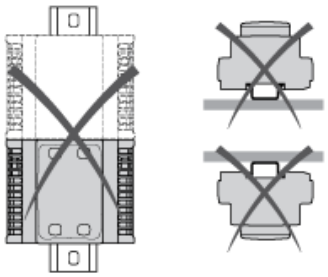


Mounting and Clearance

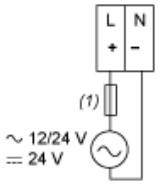
Clearance



Misplacement

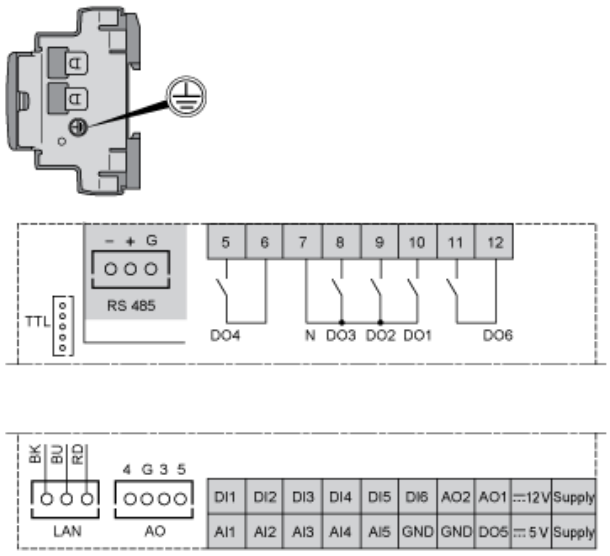


Power Supply



(1) Type T fuse (Controller: 1.25 A , Expansion: 1 A)

Wiring Diagram



N : Neutral
GND Ground
BK : Black
BU : Blue
RD : Red
AI : Analogue input
AO : Analogue output
DI : Digital input
DO : Digital output