# Product data sheet

Specifications



# Controller, Modicon M171/172/173, optimized blind 22 IO, Modbus

TM171OBM22R

Product availability: Non-Stock - Not normally stocked in distribution facility

#### Price\*: 167.28 USD

### 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 010 V 2 PWM/PPM 20 kHz, 12 V, 35 mA

### Complementary

1 LAN expansion bus 1 RS485 - screw terminal block Modbus serial link)
5 analog output
6 digital input
5 analog input
6 digital output
Sink or source (positive/negative)
Volt-free contacts
voltage 05 V ratiometric)
voltage 010 V
current 020 mA/420 mA
voltage 01 V
temperature probe - 50100 °C 0.1 °C
12 V DC 85 mA
5 V DC 20 mA
24 V
1224 V AC
Built-in clock at -4131 °F (-2055 °C)
Four 7-segment display units
11

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

Local signalling	6 LEDs (red) 5 LEDs (green) for programmable 7 LEDs (amber)
Mounting Support	DIN rail
Width	2.8 in (70.2 mm)
Height	3.4 in (87 mm)
Depth	2.4 in (61.6 mm)
Net Weight	0.42 lb(US) (0.19 kg)

## Environment

Directives	2006/95/EC - low voltage directive 86/188/EEC - physical agents (noise) directive
Standards	EN 60730-1 UL 60730-1 IEC 61000-4-6 IEC 61000-4-3 UL 60730-2-9 IEC 61000-4-4 IEC 61000-4-2 CSA E60730-2-9 IEC 61000-4-5 EN 60068-2-6 Fc IEC 61000-4-11 EN 60730-2-9 EN 60068-2-27 CAN/CSA-E60730-1
	UL94 (material V0)
Product Certifications	EAC CSA RCM CE cURus
Ambient air temperature for operation	-4131 °F (-2055 °C) UL 60730-1
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)
Relative humidity	1090 % non-condensing
IP degree of protection	IP20
Pollution degree	2

# Ordering and shipping details

Category	US1PC1222537
Discount Schedule	PC12
GTIN	3606480752742
Returnability	No
Country of origin	US

# **Packing Units**

•	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.197 in (13.200 cm)
Package 1 Width	3.543 in (9.000 cm)
Package 1 Length	7.283 in (18.500 cm)
Package 1 Weight	8.854 oz (251.000 g)

Unit Type of Package 2	S02
Number of Units in Package 2	6
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	3.805 lb(US) (1.726 kg)

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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



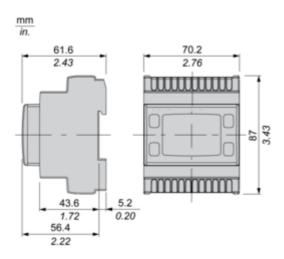
Rohs Exemption Information Yes

### **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

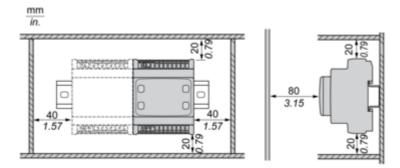


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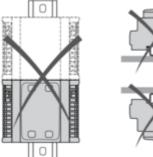
#### Mounting and Clearance

#### Mounting and Clearance

#### Clearance



#### Misplacement

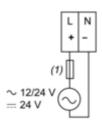




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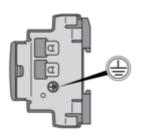
Connections and Schema

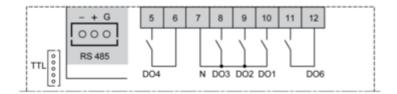
#### Power Supply

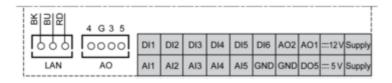


(1) Type T fuse (Controller: 1.25 A , Expansion: 1 A)

#### Wiring Diagram







N: Neutral

GND : Ground

BK : Black

BU : Blue

RD : Red AI : Analogue input

AO : Analogue output

DI : Digital input

**DO** : Digital output