

# Product data sheet

Specifications



Controller, Modicon M171/172/173,  
optimized, flush mounting, 22 IO,  
Modbus

TM171OFM22R

Product availability: Stock - Normally stocked in distribution facility

Price\*: 173.87 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<br>3 relay outputs SPST with same common<br>2 relay outputs SPST with independent common |
| Discrete Output Current      | 2 A relay   |
| Analogue Input Number        | 2 configurable<br>3 analog input NTC  |
| Analogue Output Number       | 3 voltage 0...10 V<br>2 PWM/PPM 20 kHz, 12 V, 35 mA   |

## Complementary

|                           |  |
|---------------------------|--|
| Number Of Port            | 1 LAN expansion bus<br>1 RS485 - screw terminal block Modbus serial link)  |
| Input/Output Number       | 5 analog output<br>6 digital input<br>5 analog input<br>6 digital output   |
| Discrete Input Logic      | Sink or source (positive/negative)   |
| Contacts Usage            | Volt-free contacts   |
| Analogue Input Type       | voltage 0...5 V ratiometric)<br>voltage 0...10 V<br>NTC temperature probe - 50...100 °C 0.1 °C<br>current 0...20 mA/4...20 mA<br>voltage 0...1 V |
| Sensor Power Supply       | 12 V DC 85 mA<br>5 V DC 20 mA  |
| [Us] Rated Supply Voltage | 12...24 V<br>24 V  |
| Width                     | 5.51 in (140 mm)   |
| Height                    | 4.33 in (110 mm)   |
| Depth                     | 2.43 in (61.6 mm)  |
| Net Weight                | 0.85 lb(US) (0.385 kg)   |

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

Disclaimer: 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

# Environment

|                        |   |
|------------------------|---|
| Standards              | EN 60730-1<br>UL 60730-1<br>IEC 61000-4-6<br>IEC 61000-4-3<br>UL 60730-2-9<br>IEC 61000-4-4<br>IEC 61000-4-2<br>CSA E60730-2-9<br>IEC 61000-4-5<br>EN 60068-2-6 Fc<br>IEC 61000-4-11<br>EN 60730-2-9<br>EN 60068-2-27<br>CAN/CSA-E60730-1<br>UL94 (material V0) |
| Product Certifications | EAC<br>CSA<br>RCM<br>CE<br>cURus  |

# Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US1PC1222537  |
| Discount Schedule | PC12          |
| Gtin              | 3606480752810 |
| Returnability     | Yes           |
| Country Of Origin | US            |

# Packing Units

|                              |                        |
|------------------------------|------------------------|
| Unit Type Of Package 1       | PCE                    |
| Number Of Units In Package 1 | 1                      |
| Package 1 Height             | 5.12 in (13.000 cm)    |
| Package 1 Width              | 3.54 in (9.000 cm)     |
| Package 1 Length             | 4.92 in (12.500 cm)    |
| Package 1 Weight             | 6.49 oz (184.000 g)    |
| Unit Type Of Package 2       | S02                    |
| Number Of Units In Package 2 | 15                     |
| Package 2 Height             | 5.91 in (15.000 cm)    |
| Package 2 Width              | 11.81 in (30.000 cm)   |
| Package 2 Length             | 15.75 in (40.000 cm)   |
| Package 2 Weight             | 6.73 lb(US) (3.051 kg) |

## Sustainability


**Green Premium™** 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<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 >](#)

## Resource performance

 Upgradeable Through Digital Modules  
And Upgraded Components

## Well-being performance

 Mercury Free

 RoHS Exemption Information [Yes](#)

Reach Regulation [REACH Declaration](#)

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

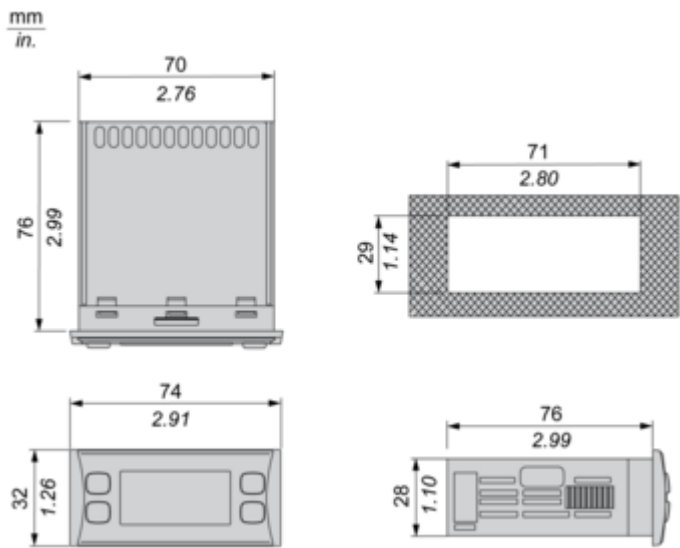
China RoHS Regulation [China RoHS declaration](#)

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

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](http://www.P65Warnings.ca.gov)

Dimensions Drawings

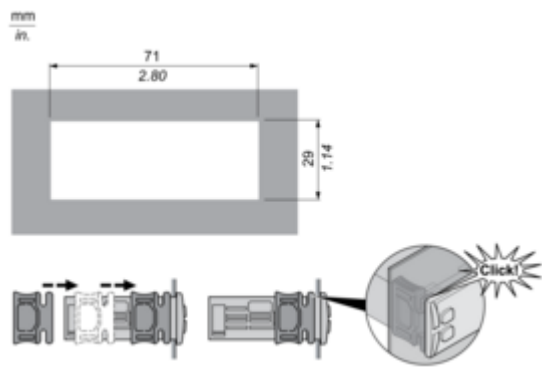
Dimensions



Mounting and Clearance

Mounting on Panel with the Special Brackets Provided

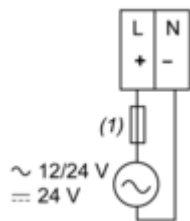
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Connections and Schema

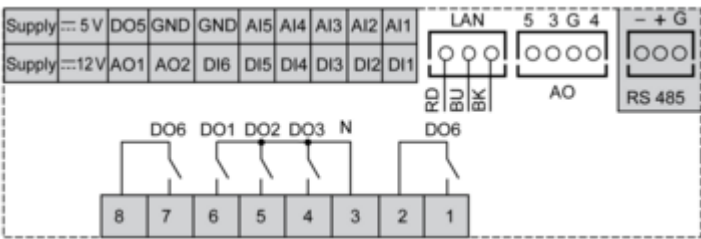
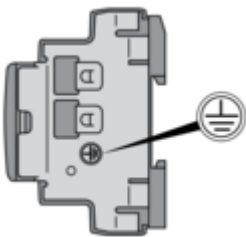
Power Supply

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(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