

# Product data sheet

Specifications



## Controller, Modicon M171/172/173, optimized display 14 IO, 100-240V AC

TM171OD14R

### Main

|                              |  |
|------------------------------|--|
| Range Of Product             | Modicon M171/M172  |
| Product Or Component Type    | Controller   |
| Product Specific Application | HVAC and pumping solution  |
| Variant                      | Programmable   |
| Total Inputs/Outputs         | 14   |
| Discrete Input Number        | 2  |
| Discrete Output Number       | 3 for relay outputs SPST with same common<br>1 for relay outputs SPDT with same common                       |
| Discrete Output Current      | 2 A for relay  |
| Analogue Input Number        | 2 configurable<br>3 analog input NTC   |
| Analogue Output Number       | 2 voltage, range: 0...10 V<br>2 PWM/PPM, range: 20 kHz, 12 V, 35 mA<br>1 current, range: 0...20 mA/4...20 mA |

### Complementary

|                           |   |
|---------------------------|---|
| Number Of Port            | 1 LAN expansion bus   |
| Input/Output Number       | 5 analog output(s)<br>4 digital output(s)<br>5 analog input(s)  |
| 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 - resolution: 0.1 °C<br>Pt 1000 temperature probe - 50...400 °C - resolution: 0.1 °C<br>current 0...20 mA/4...20 mA<br>voltage 0...1 V |
| Sensor Power Supply       | 12 V DC at 85 mA  |
| [Us] Rated Supply Voltage | 100...240 V   |
| Width                     | 70.2 mm   |
| Height                    | 87 mm   |
| Depth                     | 61.6 mm   |
| Net Weight                | 0.19 kg   |

### Packing Units

|                        |     |
|------------------------|-----|
| Unit Type Of Package 1 | PCE |
|------------------------|-----|

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

|                              |           |
|------------------------------|-----------|
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 13.000 cm |
| Package 1 Width              | 9.000 cm  |
| Package 1 Length             | 18.500 cm |
| Package 1 Weight             | 288.000 g |
| Unit Type Of Package 2       | S02       |
| Number Of Units In Package 2 | 6         |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 2.020 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 >](#)



Transparency   RoHS/REACH

## Resource performance

✓ Upgradeable Through Digital Modules  
And Upgraded Components

## Well-being performance

✓ Mercury Free

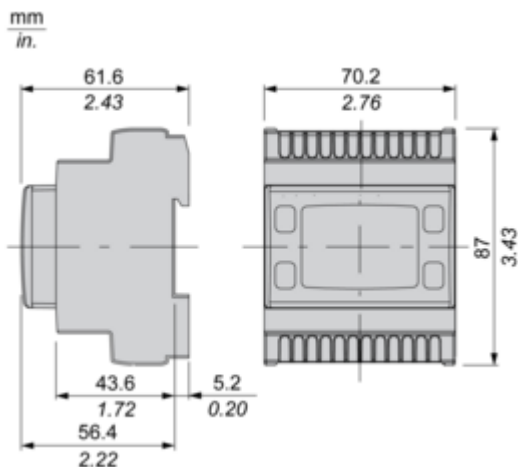
✓ Rohs Exemption Information   Yes

## Certifications & Standards

|                           |   |
|---------------------------|---|
| Reach Regulation          | <a href="#">REACH Declaration</a>   |
| Eu Rohs Directive         | Pro-active compliance (Product out of EU RoHS legal scope)  |
| China Rohs Regulation     | <a href="#">China RoHS declaration</a>  |
| Environmental Disclosure  | <a href="#">Product Environmental Profile</a>   |
| Weee                      | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins   |
| Circularity Profile       | <a href="#">End of Life Information</a>   |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Dimensions Drawings

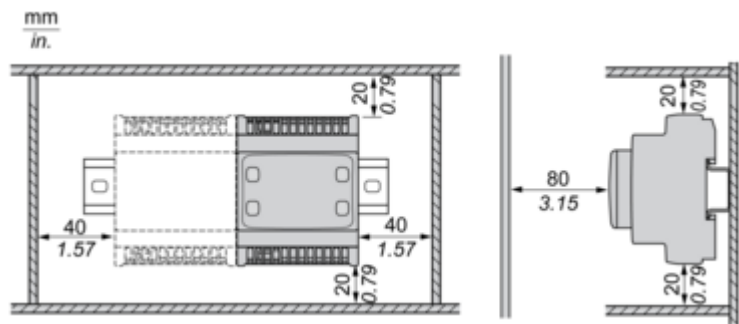
Dimensions



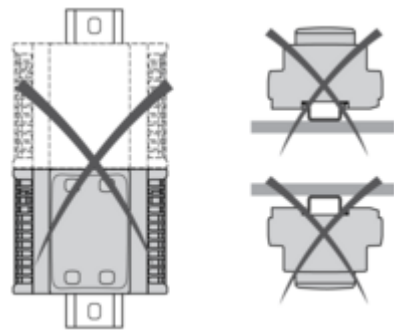
Mounting and Clearance

Mounting and Clearance

Clearance



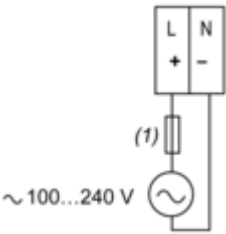
Misplacement



Connections and Schema

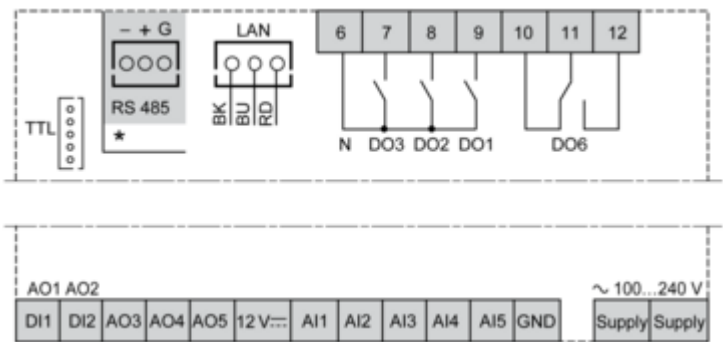
Power Supply

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(1) Type T fuse 160 mA

Wiring Diagram



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