

# Product data sheet

Specifications



## Controller, Modicon M171/M172/ M173, optimized display 22 IO,

TM171OD22R

### 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 for open collector 3 for relay outputs SPST with same common 2 for relay outputs SPST with independent common
Discrete output current	2 A for relay
Analogue input number	2 configurable 3 analog input NTC
Analogue output number	3 voltage, range: 0...10 V 2 PWM/PPM, range: 20 kHz, 12 V, 35 mA

### Complementary

Number of port	1 LAN expansion bus
Input/output number	5 analog output(s) 6 digital input(s) 5 analog input(s) 6 digital output(s)
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 NTC temperature probe - 50...100 °C - resolution: 0.1 °C current 0...20 mA/4...20 mA voltage 0...1 V
Sensor power supply	12 V DC at 85 mA 5 V DC at 20 mA
[Us] rated supply voltage	24 V 12...24 V AC
Realtime clock	Built-in clock at -20...55 °C
Display type	Four 7-segment display units
Overvoltage category	II
Local signalling	6 LEDs (red) 5 LEDs (green) 7 LEDs (amber) for programmable
Mounting support	DIN rail

Width	70.2 mm
Height	87 mm
Depth	61.6 mm
Product weight	0.19 kg

## Environment

Directives	2006/95/EC - low voltage directive 86/188/EEC - physical agents (noise) directive
Standards	EN/IEC 60730
Product certifications	cURus EAC CE CSA
Ambient air temperature for operation	-20...55 °C conforming to UL 60730-1
Ambient air temperature for storage	-40...85 °C
Relative humidity	10...90 % non-condensing
IP degree of protection	IP20
Pollution degree	2

## Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.000 cm
Package 1 Width	9.100 cm
Package 1 Length	18.500 cm
Package 1 Weight	266.000 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	1.870 kg



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Total lifecycle Carbon footprint	182
Environmental Disclosure	<a href="#">Product Environmental Profile</a>

## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	<a href="#">REACH Declaration</a>
California proposition 65	<b>WARNING:</b> 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="#">www.P65Warnings.ca.gov</a>

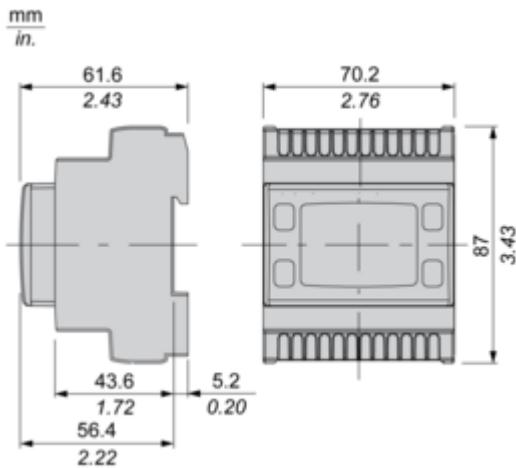
## Use Again

### Repack and remanufacture

End of life manual availability	<a href="#">End of Life Information</a>
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

## Dimensions Drawings

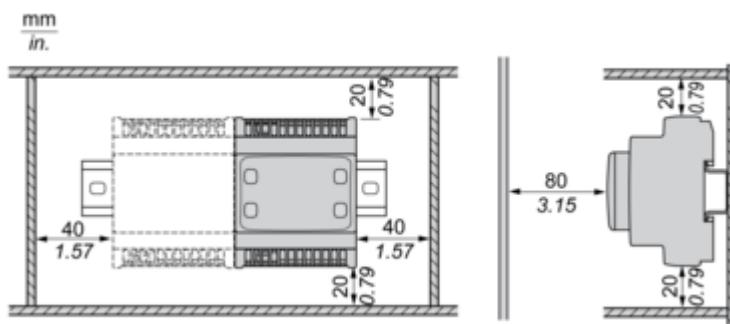
## Dimensions



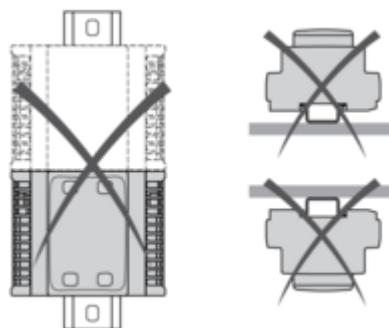
## Mounting and Clearance

Mounting and Clearance

## Clearance



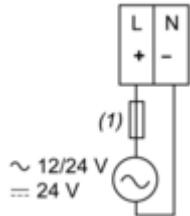
## Misplacement



Connections and Schema

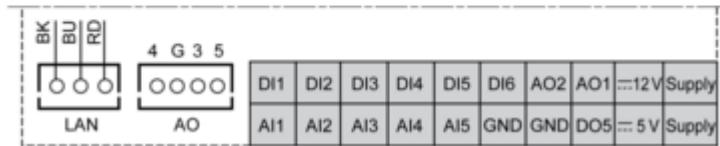
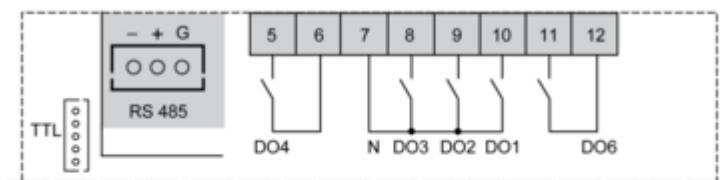
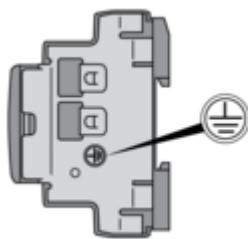
Power Supply

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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

DI : Digital input