

Product data sheet

Specifications



Controller, Modicon M171/M172/ M173, optimized display 22 IO, Modbus, 2 SSR

TM171ODM22S

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 solid state SSR with independent common
Discrete output current	2 A relay 2 A triac
Analogue input number	2 configurable 3 analog input NTC
Analogue output number	3 voltage 0...10 V 1 PWM/PPM 20 kHz, 12 V, 35 mA 2 triac 3 A

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 NTC temperature probe - 50...100 °C 0.1 °C current 0...20 mA/4...20 mA voltage 0...1 V
Sensor power supply	12 V DC 85 mA 5 V DC 20 mA
[Us] rated supply voltage	12...24 V +/- 10 % AC 24 V +/- 10 % DC
Power consumption in W	4 W
Realtime clock	Built-in clock at -4...131 °F (-20...55 °C)
Display type	Four 7-segment display units
Overvoltage category	II

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

Local signalling	6 LEDs red) 5 LEDs green) Programmable 7 LEDs amber)
mounting support	Flush mounting
Width	2.9 in (74 mm)
Height	1.3 in (32 mm)
Depth	3.0 in (76 mm)
net weight	0.362 lb(US) (0.164 kg)

Environment

Directives	2006/95/EC - low voltage directive 86/188/EEC - physical agents (noise) directive
Standards	EN/IEC 60730
Product certifications	CSA CE cURus EAC
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	3.6 in (9.1 cm)
Package 1 Width	5.1 in (13.0 cm)
Package 1 Length	7.3 in (18.5 cm)
Package 1 Weight	10.2 oz (289.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	6
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	4.722 lb(US) (2.142 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-CO₂ 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 [REACH Declaration](#)

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

China Rohs Regulation [China RoHS declaration](#)

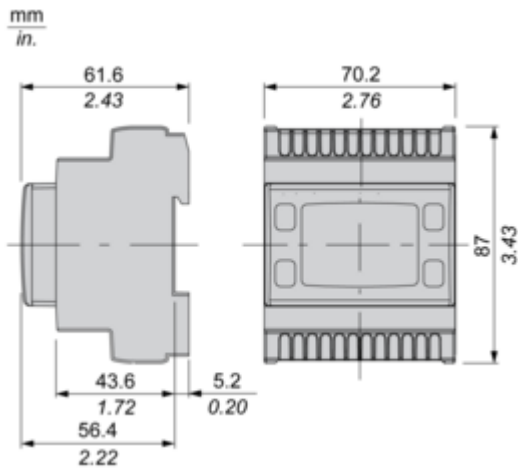
Environmental Disclosure [Product Environmental Profile](#)

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](#)

Dimensions Drawings

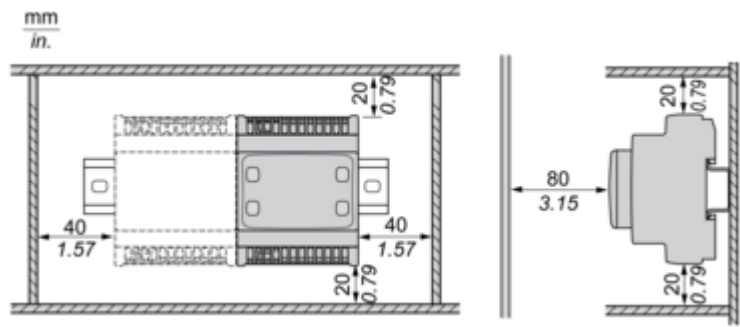
Dimensions



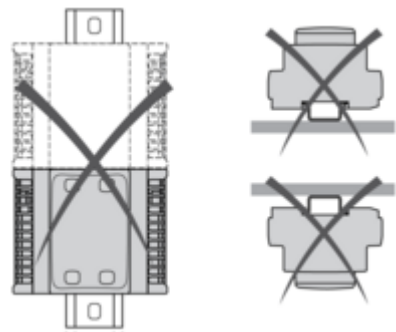
Mounting and Clearance

Mounting and Clearance

Clearance

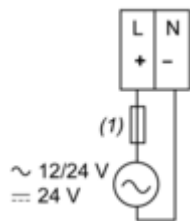


Misplacement



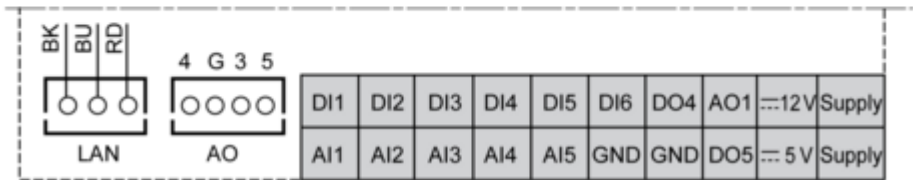
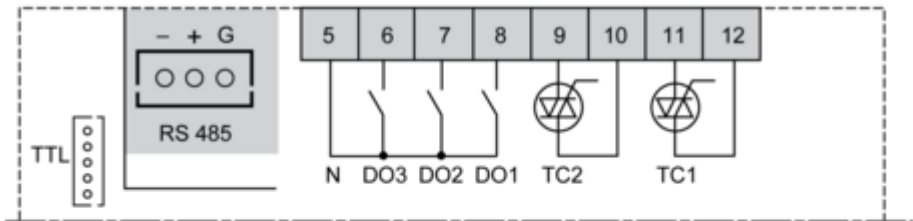
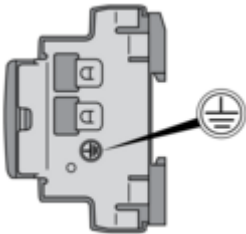
Connections and Schema

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
- TC : Triac output