

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

Complementary

Number of port	1 LAN expansion bus 1 RS485 - screw terminal block (Modbus serial link)
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	12...24 V +/- 10 % AC 24 V +/- 10 % DC
Power consumption in W	4 W
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	Flush mounting
Width	74 mm
Height	32 mm
Depth	76 mm
Product weight	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	-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	9.1 cm
Package 1 Width	13.0 cm
Package 1 Length	18.5 cm
Package 1 Weight	289.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	6
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	2.142 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	Product Environmental Profile

Use Better

Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	REACH Declaration
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

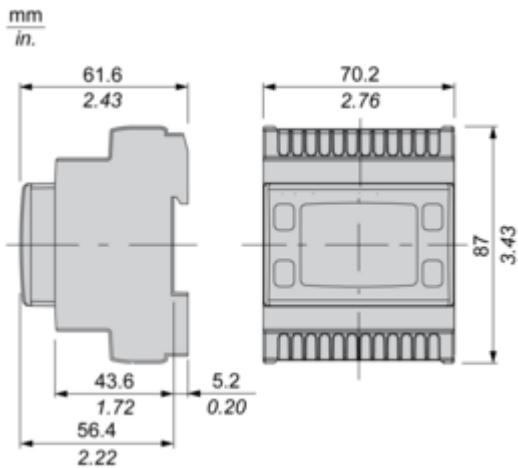
Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
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

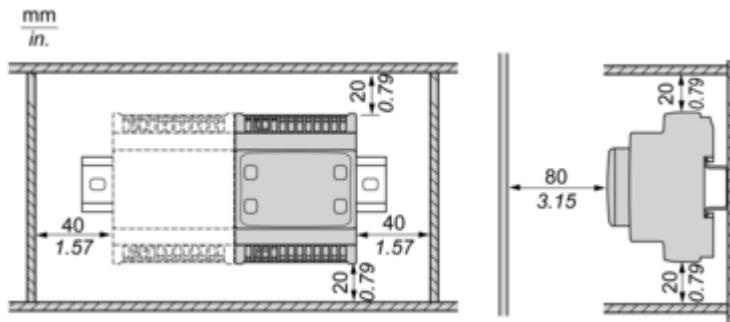
Dimensions



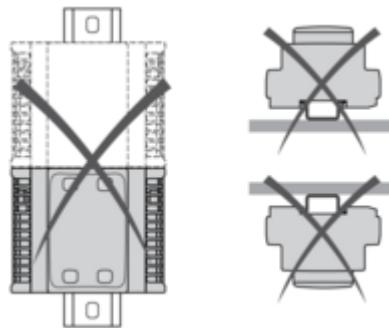
Mounting and Clearance

Mounting and Clearance

Clearance

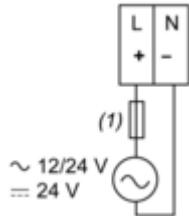


Misplacement

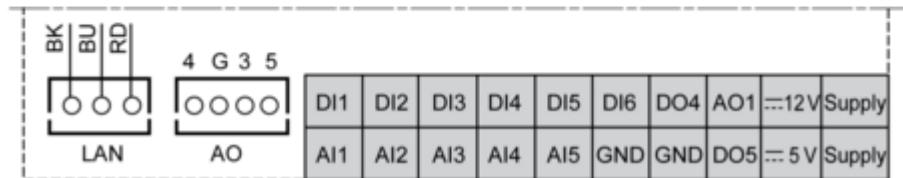
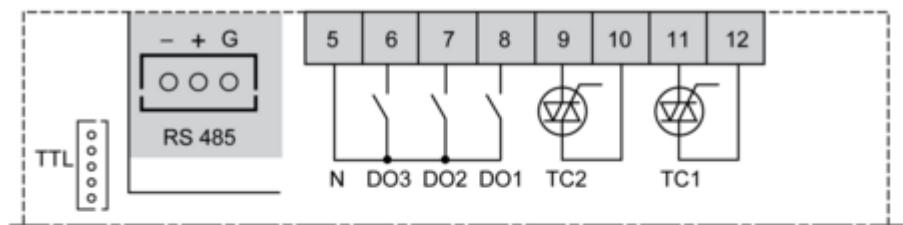
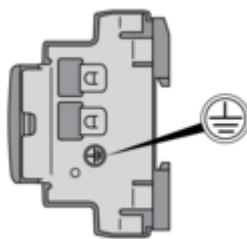


Connections and Schema

Power Supply



(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