

Product data sheet

Specifications



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

TM171OFM22R

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 relay outputs SPST with independent common
Discrete Output Current	2 A relay
Analogue Input Number	2 configurable 3 analog input NTC
Analogue Output Number	3 voltage 0...10 V 2 PWM/PPM 20 kHz, 12 V, 35 mA

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 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)

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

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-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 >](#)

Resource performance

 Upgradeable Through Digital Modules
And Upgraded Components

Well-being performance

 Mercury Free

 Rohs Exemption Information [Yes](#)

Reach Regulation [REACH Declaration](#)

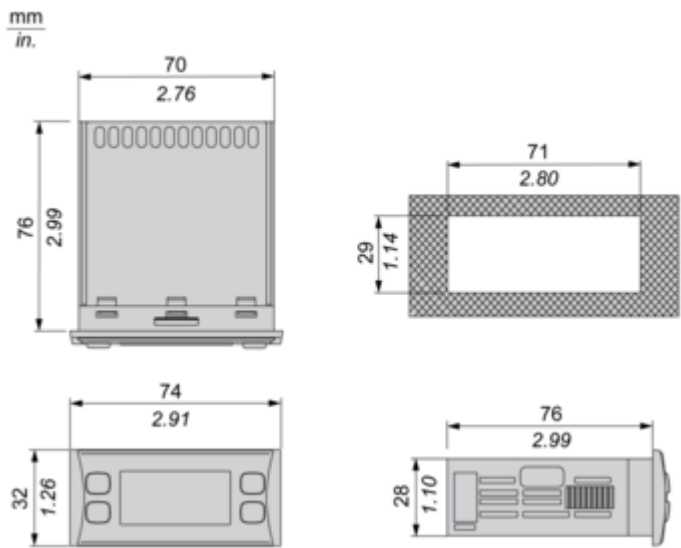
Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

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

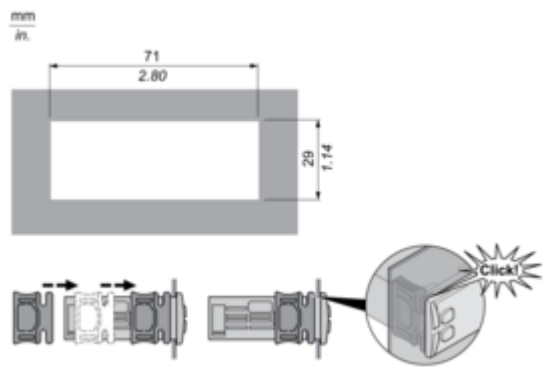
Dimensions Drawings

Dimensions



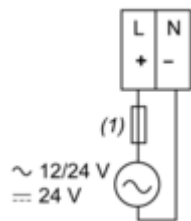
Mounting and Clearance

Mounting on Panel with the Special Brackets Provided



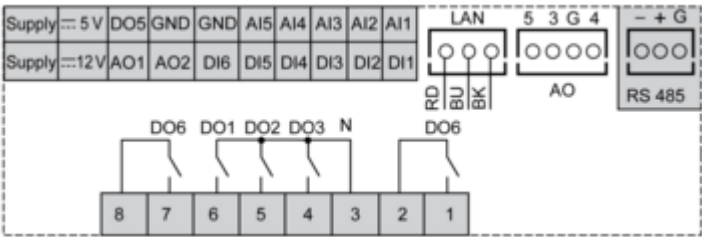
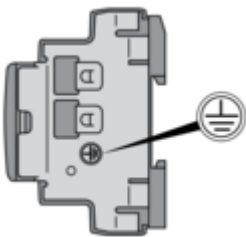
Connections and Schema

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