Product datasheet

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 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 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 24 V
Width	140 mm
Height	110 mm
Depth	61.6 mm
Net Weight	0.385 kg

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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	13.000 cm
Package 1 Width	9.000 cm
Package 1 Length	12.500 cm
Package 1 Weight	184.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.051 kg

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Sustainability

Green Premium^{TM} 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_2 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

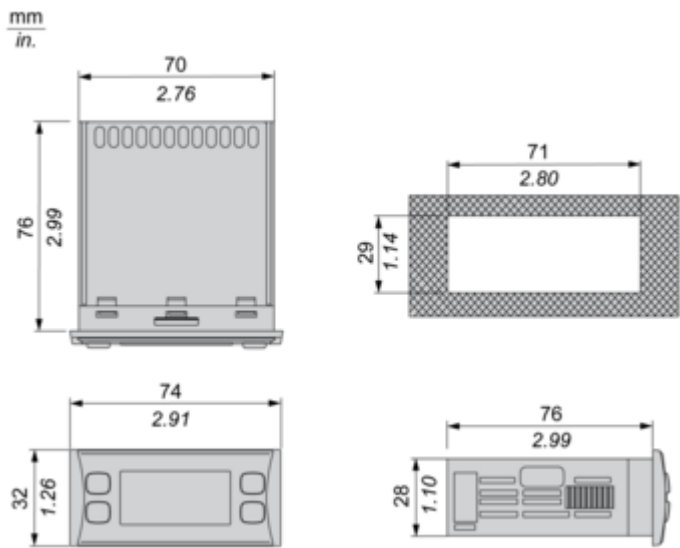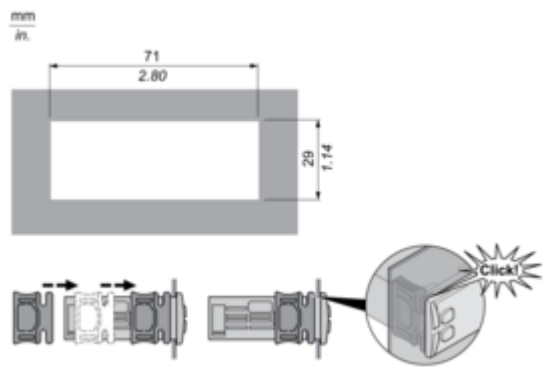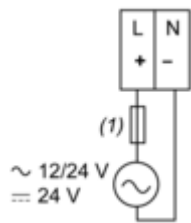|	
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Dimensions Drawings

Dimensions

Mounting and Clearance

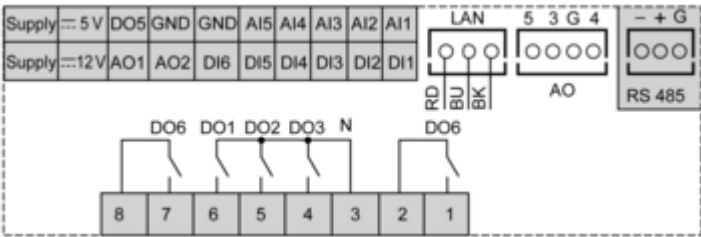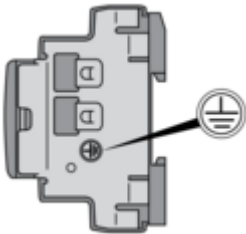## Mounting on Panel with the Special Brackets Provided

Connections and Schema

Power Supply

(1) Type T fuse (Controller: 1.25 A , Expansion: 1 A)

Power Supply

Wiring Diagram

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