

Expansion module, Modicon M171/M172/M173, optimized 14 IO, 100-240V AC

TM171EO14R

Main

Range of product	Modicon M171/M172	
Product or component type	Additional I/O module	
Product specific application	HVAC and pumping solution	
Total inputs/outputs	14	
Discrete input number	2	
Discrete output number	1 for relay outputs SPDT with independent common 3 for relay outputs SPST with same common	
Discrete output current	2 A for relay	
Analogue input number	3 analog input NTC/Pt 1000 2 configurable	
Analogue output number	2 voltage, range: 010 V 2 PWM/PPM, range: 20 kHz, 12 V, 35 mA 1 current, range: 020 mA/420 mA	

Complementary

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Number of port	er of port 1 LAN expansion bus	
Input/output number	5 analog output(s) 4 digital output(s) 5 analog input(s)	
Discrete input logic	Sink or source (positive/negative)	
Contacts usage	Volt-free contacts	
Analogue input type	voltage 05 V (ratiometric) voltage 010 V NTC temperature probe - 50100 °C - resolution: 0.1 °C Pt 1000 temperature probe - 50400 °C - resolution: 0.1 °C current 020 mA/420 mA voltage 01 V	
Sensor power supply	12 V DC at 85 mA	
[Us] rated supply voltage	100240 V +/- 10 % AC/DC	
Power consumption in W	7 W	
Realtime clock	Built-in clock at -1055 °C	
Display type	Without display	
Overvoltage category	II	
Local signalling	LED (red) for programmable LED (yellow) for programmable LED (green) for programmable	
Mounting support	DIN rail	
Width	70.2 mm	

Height	87 mm
Depth	61.6 mm
Net weight	0.385 kg

Environment

Directives	86/188/EEC - physical agents (noise) directive 2006/95/EC - low voltage directive	
Standards	EN/IEC 60730	
Product certifications	EAC cURus CSA CE	
Ambient air temperature for operation	-1055 °C conforming to UL 60730-1	
Ambient air temperature for storage	-2085 °C	
Relative humidity	1090 % 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	13.200 cm
Package 1 Width	9.000 cm
Package 1 Length	18.500 cm
Package 1 Weight	284.000 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	1.963 kg



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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	182
Environmental Disclosure	Product Environmental Profile

Use Better

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

Use Again

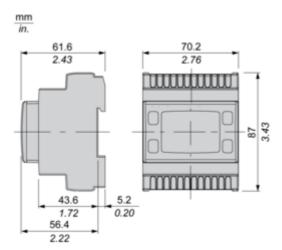
○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No

Product datasheet

TM171EO14R

Dimensions Drawings

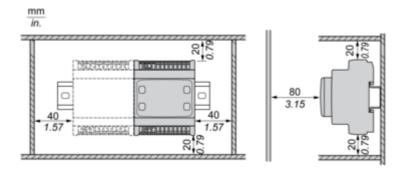
Dimensions



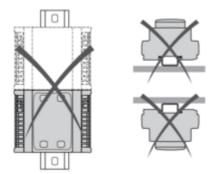
Mounting and Clearance

Mounting and Clearance

Clearance



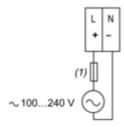
Misplacement



TM171EO14R

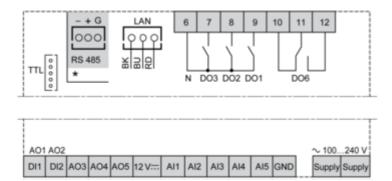
Connections and Schema

Power Supply



(1) Type T fuse 160 mA

Wiring Diagram



N : Neutral
GND : Ground
BK : Black
BU : Blue
RD : Red

AI : Analogue input AO : Analogue output DI : Digital input DO : Digital output