## **Product datasheet**

Specification





# Controller, Modicon M171/M172/M173, optimized display 22 IO,

TM1710D22R

#### 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	for open collector     for relay outputs SPST with same common     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: 010 V 2 PWM/PPM, range: 20 kHz, 12 V, 35 mA

### Complementary

Number of port	1 LAN expansion bus
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 05 V (ratiometric) voltage 010 V NTC temperature probe - 50100 °C - resolution: 0.1 °C current 020 mA/420 mA voltage 01 V
Sensor power supply	12 V DC at 85 mA 5 V DC at 20 mA
[Us] rated supply voltage	24 V 1224 V AC
Realtime clock	Built-in clock at -2055 °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	DIN rail

Width	70.2 mm
Height	87 mm
Depth	61.6 mm
Net weight	0.19 kg

#### **Environment**

Directives	2006/95/EC - low voltage directive
	86/188/EEC - physical agents (noise) directive
Standards	EN/IEC 60730
Product certifications	cURus
	EAC
	CE
	CSA
Ambient air temperature for operation	-2055 °C conforming to UL 60730-1
Ambient air temperature for storage	-4085 °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	13.000 cm
Package 1 Width	9.100 cm
Package 1 Length	18.500 cm
Package 1 Weight	266.000 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	1.870 kg



**Green Premium**<sup>TM</sup> **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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Transparency RoHS/REACh

#### Resource performance



#### Well-being performance



Mercury Free



Rohs Exemption Information

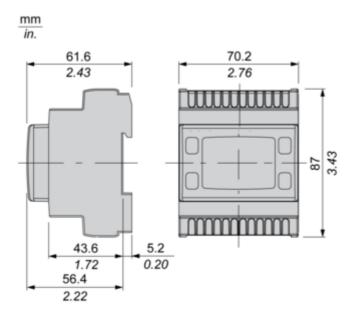
Yes

#### **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**

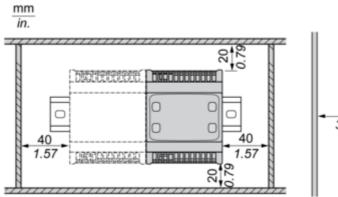
#### **Dimensions**

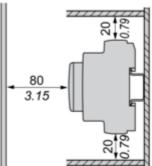


#### Mounting and Clearance

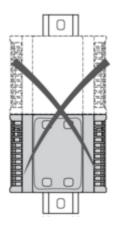
#### Mounting and Clearance

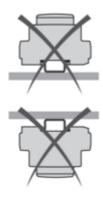
#### Clearance





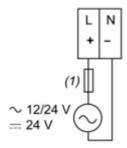
#### Misplacement





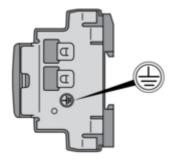
Connections and Schema

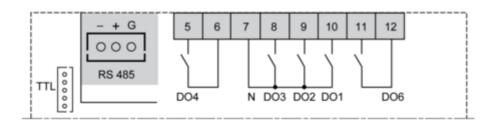
#### Power Supply

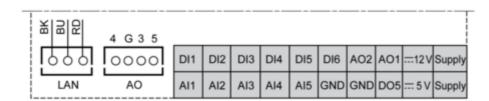


(1) Type T fuse (Controller: 1.25 A , Expansion: 1 A)

#### Wiring Diagram







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

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