

TM173ODM22S
Controller, Modicon M171/M172/M173, optimized
display, 22 IO, 2 RS485, solid state relay

Local Stock Code: On Stock



Main

Range of product	Modicon M171/M172/M173
Product or component type	Programmable controllers
Product specific application	HVAC and pumping solution
Variant	Programmable
Number of inputs/outputs	22
Discrete input number	6
Discrete output number	3 for relay outputs SPST with same common 2 for solid state, isolated SPST with independent common
Discrete output current	3 A for relay SPST 0.5 A for solid state, isolated
Analogue input number	6 configurable by pair 1 configurable
Analogue output number	1 voltage/current, range: 0...10 V or 4...20 mA 3 voltage, range: 0...10 V or PWM (10Hz...2 kHz)

Complementary

Number of port	1 CAN port - screw terminal block 1 USB type C 2 RS485 - screw terminal block (Modbus serial link) 1 display port - TTL connector 1 communication module port
Input/output number	6 digital input(s) 5 digital output(s) 7 analog input(s) 4 analog output(s)
Discrete input logic	Sink or source (positive/negative)
Contacts usage	Volt-free contacts
Discrete input voltage	24 V AC/DC
Discrete input current	2.5 MA
Input impedance	20 kOhm
Analogue input type	NTC 103AT-2 Beta 3435 temperature probe - 50...100 °C - resolution: 0.1 °C at 10 kOhm[RETURN]

Measurement accuracy	NTC NK103 Beta 3977 - 40...+110 °C +/- 1 °C NTC NK103 Beta 3977 110...137 °C +/- 1.9 °C NTC 103AT-2 Beta 3435 - 50...110 °C +/- 1 °C PTC - 55...155 °C +/- 1.1 °C Pt 1000 - 100...-50 °C +/- 5 °C Pt 1000 - 50...100 °C +/- 1 °C Pt 1000 100...400 °C +/- 5 °C 0...20 mA 0...4 mA +/- 2 % of full scale +/- 1 digit 0...20 mA 4...20 mA +/- 1 % of full scale +/- 1 digit 4...20 mA +/- 1 % of full scale +/- 1 digit 0...10 V +/- 1 % of full scale +/- 1 digit 0...5 V +/- 1 % of full scale +/- 1 digit HOhm 0...1500 hOhm +/- 8.5 hOhm DaOhm 0...300 daOhm +/- 2.5 daOhm
Sensor power supply	5 V DC at 50 mA supplied by the controller 24 V DC at 125 mA supplied by the controller
[Us] rated supply voltage	24 V +/- 10 % AC 20...38 V DC
Power consumption in W	10 W at 24 V AC/DC
Realtime clock	Built-in clock, clock drift <= 30 s/month at -20...65 °C
Display type	LED
Memory type	1 MB flash 380 kB RAM
Overvoltage category	II
Local signalling	1 LED (green) for USB pendrive download status
Mounting support	Panel mounting with accessory DIN rail
Width	72 Mm
Height	110 Mm
Depth	60 Mm
Product weight	0.178 Kg

Environment

Directives	2014/30/EU - electromagnetic compatibility 2014/35/EU - low voltage directive
Standards	CAN/CSA-E60730-1 CSA E60730-2-9 EN 60068-2-27 EN 60068-2-6 Fc EN 60730-1 EN 60730-2-9 UL 60730-1 UL 60730-2-9 IEC 61000-4-2 IEC 61000-4-3 IEC 61000-4-4 IEC 61000-4-5 IEC 61000-4-6 IEC 61000-4-11 UL94 (material V0)
Product certifications	EAC (pending)[RETURN]CE[RETURN]cURus[RETURN]CSA[RETURN]RCM (pending)
Ambient air temperature for operation	-20...65 °C conforming to UL 60730-1 Conforming to EN 60730-1 conforming to EN 60730-2-9
Ambient air temperature for storage	-30...70 °C
Relative humidity	5...95 % non-condensing
IP degree of protection	IP20 conforming to EN/IEC 60730
Pollution degree	2
Operating altitude	0...2000 m

Ordering and shipping details

Category	US1PC1222537
Discount Schedule	PC12
GTIN	3606487008354
Returnability	Yes
Country of origin	IT

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.000 Cm
Package 1 Width	9.000 Cm
Package 1 Length	13.500 Cm
Package 1 Weight	273.000 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	4.390 Kg

Offer Sustainability

Recyclability potential, in %	0
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which
Total lifecycle Carbon footprint	262 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	22.999013294125632
Carbon footprint of the manufacturing phase [A1 to A3]	23 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.08194769177743627
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.004941476441921919
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	238.3411809507395
Carbon footprint of the use phase [B2, B3, B4, B6]	238 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.6749566772376119
Carbon footprint of the end-of-life phase [C1 to C4]	0.7 kg CO2 eq.
Total lifecycle Carbon footprint	262
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
SCIP Number	Bf389323-b120-425e-a905-c5f4cc201508
RECh Regulation	Reference contains Substances of Very High Concern above the threshold 
EU RoHS Directive	Compliant By Exemption 
Updatability	Yes
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 n

Contractual warranty

Warranty (in months)	18
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Product Life Status :	Commercialised
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