



Commercial status

Discontinued: 28 June 2019

has not been replaced. Please contact your customer care center for more information.

⚠ Restricted Sales for Services

Main

Range of product	Modicon M238 logic controller
Product or component type	Input/output analog module
Analogue input number	2
Input level	High level
Analogue input type	current 4...20 mA non differential voltage 0...10 V non differential
Analogue output number	1
Analogue output type	Current: 4...20 mA Voltage: 0...10 V
Cross talk	<= 2 LSB

Complementary

Range compatibility	Twido Advantys OTB
Analogue input resolution	12 bits
Analogue output resolution	12 bits
LSB value	2.5 mV voltage voltage 4.8 μ A current current
Permissible continuous overload	40 mA, analogue input type: current 13 V, analogue input type: voltage
Input impedance	>= 10 Ohm current >= 1 MOhm voltage
Load type	Resistive
Load impedance ohmic	>= 2000 Ohm voltage <= 300 Ohm current
Stabilisation time	20 ms
Conversion time	20 ms + 1 controller cycle time
Sampling duration	10 ms
Acquisition period	60 ms per channel + 1 controller cycle time
Measurement error	+/- 0.2 % of full scale 0...10 V 0...10 V at 25 °C

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

	+/- 0.2 % of full scale 4...20 mA 4...20 mA at 25 °C
Temperature coefficient	+/-0.006 %FS/°C, analogue input type: 0...10 V +/-0.006 %FS/°C, analogue input type: 4...20 mA +/-0.015 %FS/°C, analogue input type: 0...10 V, analogue output type: 0...10 V +/-0.015 %FS/°C, analogue input type: 4...20 mA, analogue output type: 4...20 mA
Repeat accuracy	+/-0.5 %FS for input/output
Non-linearity	+/- 0.2 %FS, analogue input type: current, analogue output type: current +/- 0.2 %FS, analogue input type: voltage, analogue output type: voltage
Output error	+/- 1 %FS
Output ripple	<= 1 LSB
Total error	+/-1 %FS, analogue input type: current, analogue output type: current +/-1 %FS, analogue input type: voltage, analogue output type: voltage
Type of cable	Shielded cable
Insulation between channel and internal logic	Photocoupler
Supply	External supply
[Us] rated supply voltage	24 V DC
Supply voltage limits	19.2...30 V
Electrical connection	1 removable screw terminal block
Current consumption	50 mA at 24 V DC external 50 mA at 5 V DC internal
Net weight	0.085 kg

Environment

Dielectric strength	500 V between I/O channel 500 V between the I/O and the external supply circuit 500 V between the I/O and internal logic
Width	23.5 mm
Depth	70 mm
Height	90 mm

Offer Sustainability

Sustainable offer status	Green Premium product
REACH free of SVHC	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Contractual warranty

Warranty	18 months
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