Product data sheet
Characteristics

TM3AM6
IO analog module, Modicon TM3, 4 inputs, 2 output, screw, 24V DC



Main

Range of product	Modicon TM3
Product or component type	Input/Output analog module
Range compatibility	Modicon M221 Modicon M241 Modicon M251 Modicon M262
Analogue input number	4
Analogue output number	2

Complementary

Analogue input type	Current 4...20 mA Current 0...20 mA Voltage 0...10 V Voltage - 10...10 V
Analogue input resolution	12 bits 11 bits + sign
Permissible continuous overload	13 V, analogue input type: voltage 40 mA, analogue input type: current
Stabilisation time	1 Ms
Input impedance	<= 50 Ohm >= 1 MOhm
Sampling duration	1 Ms
Analogue output type	Current: 4...20 mA Current: 0...20 mA Voltage: 0...10 V Voltage: - 10...10 V
Conversion time	1 ms + 1 ms per channel + 1 controller cycle time
Absolute accuracy error	+/- 1 % of full scale +/- 0.2 % of full scale at 25 °C
Repeat accuracy	+/-0.5 %FS for input
Output ripple	20 mV
Cross talk	<= 1 LSB
Type of cable	Twisted shielded pairs cable <30 m for input/output circuit
Electrical connection	10 x 1.5 mm² removable spring terminal block with pitch 3.81 mm adjustment for inputs and sup 10 x 1.5 mm² removable spring terminal block with pitch 3.81 mm adjustment for inputs
LSB value	2.44 mV, 0...10 V 4.88 mV, - 10...10 V 4.88 µA, 0...20 mA 3.91 µA, 4...20 mA
Insulation	Between input and supply at 1500 V AC Between input and internal logic at 500 V AC Between output and supply at 1500 V AC Between output and internal logic at 500 V AC

Immunity to microbreaks	10 Ms
Load impedance ohmic	1 kOhm voltage 300 Ohm current
Load type	Resistive
Temperature drift	+/- 0.01 %FS/°C
Non-linearity	+/- 0.2 %FS
Typical current consumption	45 MA at 5 V DC no load 55 MA at 5 V DC full load 55 MA at 24 V DC no load 100 MA at 24 V DC full load
Local signalling	1 LED green for PWR
Mounting support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 plate or panel with fixing kit
Height	90 Mm
Width	23.6 Mm
Depth	70 Mm
Net weight	0.11 Kg

Environment

IP degree of protection	IP20
Marking	CE
Product certifications	CE[RETURN]UKCA[RETURN]RCM[RETURN]EAC[RETURN]CULus[RETURN]CULus HazLoc
Standards	IEC 61131-2
Electromagnetic emission	Radiated emissions - test level: 40 dBµV/m QP class A (10 m) at 30…230 MHz conforming to IEC Radiated emissions - test level: 47 dBµV/m QP class A (10 m) at 230…1000 MHz conforming to
Ambient air temperature for operation	-10…55 °C (horizontal installation) -10…35 °C (vertical installation)
Ambient air temperature for storage	-25…70 °C
Relative humidity	10…95 % without condensation
Operating altitude	0...2000 m
Pollution degree	2
Vibration resistance	3.5 mm (f = 5…8.4 Hz) on DIN rail 3 gn (f = 8.4…150 Hz) on DIN rail
Shock resistance	15 gn for 11 ms

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	7.500 Cm
Package 1 Width	10.500 Cm
Package 1 Length	12.500 Cm
Package 1 Weight	192.000 G
Unit Type of Package 2	S04
Number of Units in Package 2	42
Package 2 Height	30.000 Cm
Package 2 Width	40.000 Cm
Package 2 Length	60.000 Cm
Package 2 Weight	9.232 Kg

Offer Sustainability

Recyclability potential, in %	3
Total lifecycle Carbon footprint	64 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	13.831656049831228
Carbon footprint of the manufacturing phase [A1 to A3]	14 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.04780382750726785
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.005637499620482161

Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	50.088756455125555
Carbon footprint of the use phase [B2, B3, B4, B6]	50 kg CO2 eq.
Toxic heavy metal free	Yes
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.5118604793570386
Carbon footprint of the end-of-life phase [C1 to C4]	0.5 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	64
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	3b9533ee-f829-495f-9b87-8bb0822090f1
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, wh
PVC free	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 a

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised