

Schneider Service Manual

TM2AMM6HT

1. Description

TM2AMM6HT Schneider Electric

3. Product Information

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Main

Range of product Modicon M238 logic controller

Product or component type Input/output analog module

Analogue input number 4

Input level High level

Analogue input type Current 4...20 mA non differential

Voltage 0...10 V non differential

Analogue output number 2

Analogue output type Current 4...20 mA

Voltage 0...10 V

Cross talk ≤ 2 LSB

Complementary

Range compatibility Advantys OTB

Twido

Analogue input resolution 12 bits

Analogue output resolution 12 bits

LSB value 2.5 mV voltage voltage

4 μ A current current

Permissible continuous overload 13 V voltage

40 mA current

Input impedance ≤ 250 MOhm current

≥ 1 Ohm voltage

Load type Resistive

Load impedance ohmic ≤ 300 Ohm current

≥ 2000 Ohm voltage

Stabilisation time 20 ms

Conversion time 20 ms + 1 controller cycle time

Sampling duration ≤ 16 ms

Acquisition period 16 ms per channel + 1 controller cycle time

Measurement error ± 0.5 % of full scale 0...10 V 25 °C

± 0.5 % of full scale 4...20 mA 25 °C

± 0.9 % of full scale 0...10 V 25 °C

± 0.9 % of full scale 4...20 mA 25 °C

Temperature coefficient ± 0.02 %FS/°C 0...10 V

± 0.02 %FS/°C 4...20 mA

± 0.015 %FS/°C 0...10 V 0...10 V

± 0.015 %FS/°C 4...20 mA 4...20 mA

Repeat accuracy ± 1 %FS output

± 0.5 %FS input

Non-linearity ± 0.4 %FS current

± 0.4 %FS voltage

± 0.5 %FS current

± 0.5 %FS voltage

Output error ± 1 %FS

Output ripple ≤ 1 LSB

Total error ± 1.5 %FS current

± 1.5 %FS voltage

± 1 %FS current current

± 1 %FS voltage 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 60 mA 5 V DC internal

80 mA 24 V DC external

Product weight 0.19 lb(US) (0.085 kg)

Environment

dielectric strength 1500 V between the I/O and the external supply circuit

800 V between I/O channel

800 V between the I/O and internal logic

width 0.93 in (23.5 mm)

depth 2.76 in (70 mm)

height 3.54 in (90 mm)