

TM3AI2H

Schneider Electric · Modicon TM3

Analog Input Module, 2 channels, high resolution 16-bit

Module type

Analog input (high resolution, voltage/current configurable)

Channels

2

Signal type

± 10 Vdc, 0-10 Vdc, 0-20 mA, 4-20 mA (software configurable per channel)

Range

± 10 V / 0-10 V / 0-20 mA / 4-20 mA

Resolution

16 bits (15 bits + sign)

Accuracy

$\pm 0.1\%$ of full scale at 25 °C ($\pm 1\%$ FS over temperature)

Isolation

500 V AC between analog input and internal logic; 1500 V AC between input and supply

Diagnostics

Channel status, module status, bus status

Response time

Conversion: 1 ms + 1 ms per channel + 1 controller cycle time; sampling 1 ms per channel

Wiring

Removable screw terminal block, 3.81 mm pitch

Supply voltage

24 Vdc (via TM3 bus)

Power consumption

Not available

Bus current

40 mA at 5 V DC (full load); 25 mA at 24 V DC (full load)

Operating temperature

0...+55 °C

Storage temperature

-25...+70 °C

Protection rating

IP20

Dimensions (H×W×D)

90 × 23.6 × 70 mm

Weight

0.115 kg

Compatible platforms

Modicon M221, M241, M251, M262

Lifecycle

Active (Last verified: 2026-09)

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