

TM3AI8

Schneider Electric · Modicon TM3

Analog Input Module, 8 channels, 12-bit

Module type

Analog input (voltage/current configurable per channel)

Channels

8

Signal type

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

Range

0-10 V / ± 10 V / 0-20 mA / 4-20 mA

Resolution

12 bits (11 bits + sign for bipolar)

Accuracy

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

Isolation

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

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

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

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)