

TM3TI4

Schneider Electric · Modicon TM3

Temperature Analog Input Module, 4 channels, 16-bit

Module type

Analog input (temperature: thermocouple/RTD/mV/voltage/current)

Channels

4

Signal type

Thermocouple (J, K, T, E, N, S, R, B), RTD (PT100, PT1000, NI100, NI1000, CU100), 0-10 Vdc, ± 10 Vdc, 0-20 mA, 4-20 mA (software configurable per channel)

Range

Per sensor type (e.g., PT100: -200...+850 °C; Type K: -270...+1372 °C)

Resolution

16 bits (15 bits + sign)

Accuracy

$\pm 0.2\%$ of full scale at 25 °C (voltage/current/RTD); $\pm 0.4... \pm 0.2\%$ FS for thermocouple depending on type

Isolation

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

Diagnostics

Channel status (sensor break, short circuit), module status, bus status

Response time

Conversion: 100 ms + 100 ms per channel + 1 controller cycle time (thermocouple); 10 ms per channel sampling

Wiring

Removable screw terminal block, 3.81 mm pitch

Supply voltage

24 Vdc (via TM3 bus)

Power consumption

Not available

Bus current

45 mA at 5 V DC; 35 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

0.11 kg

Compatible platforms

Modicon M221, M241, M251, M262

Lifecycle

Active (Last verified: 2026-09)