

TM3AI8G

Schneider Electric TM3AI8G - module TM3 - 8 analog inputs spring

|                                   |                                |
|-----------------------------------|--------------------------------|
| BRAND                             | ORDER CODE / PRODUCT REFERENCE |
| Schneider Electric                | TM3AI8G                        |
| PRODUCT FAMILY                    | CATEGORY                       |
| Modicon TM3                       | Analog input module            |
| SUPPLY BASIS                      | RECORD IDENTITY                |
| RFQ / on request - no stock claim | Catalog identity matched       |

PRODUCT DESCRIPTION

This product is part of the Modicon TM3 range, an offer of expansion I/O modules for Modicon M221, M241, M251 and M262. The analogue input module provides 8 inputs with 11bit + sign and 12bit resolution. Schneider Electric TM3AI8G is the exact active commercial reference for module TM3 - 8 analog inputs spring in the Modicon TM3 range. This analog input module supports flexible local or distributed I/O expansion for Modicon M221, M241, M251 and M262 controllers in industrial automation panels, packaging machinery, material handling, pumping systems and process equipment. Official Schneider characteristics include Range of product: Modicon TM3; Product or component type: Analog input module; Range compatibility: Modicon M221 Modicon M241 Modicon M251 Modicon M262; Analogue input number: 8; 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; Input impedance: >= 1 MOhm. The reference appears in Schneider Electric catalog DIA3ED2140109EN and its exact regional product page confirms current commercial availability. For an RFQ, use the complete part number TM3AI8G so the I/O count, output technology, supply voltage, communication interfaces, terminal style and safety or expert functions remain exact. Review the linked official Schneider product data sheet against the control architectur

RECORDED SPECIFICATIONS

|                     |                                                                              |
|---------------------|------------------------------------------------------------------------------|
| 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 |
| Cross talk          | <= 1 LSB                                                                     |
| Type of cable       | Twisted shielded pairs cable <30 m for input circuit                         |
| Conversion time     | 1 ms + 1 ms per channel + 1 controller cycle time                            |
| Input impedance     | >= 1 MOhm                                                                    |
| Repeat accuracy     | +/-0.5 %FS                                                                   |
| Range of product    | Modicon TM3                                                                  |
| Sampling duration   | 1 ms                                                                         |
| Official lifecycle  | Current official manufacturer lifecycle evidence                             |
| Analogue input type | Current 4...20 mA Current 0...20 mA Voltage 0...10 V Voltage - 10...10 V     |

ADDITIONAL SPECIFICATIONS

|                                 |                                                                        |
|---------------------------------|------------------------------------------------------------------------|
| Range compatibility             | Modicon M221 Modicon M241 Modicon M251 Modicon M262                    |
| Analogue input number           | 8                                                                      |
| Electrical connection           |                                                                        |
| Absolute accuracy error         | +/- 1 % of full scale +/- 0.2 % of full scale at 25 °C                 |
| Manufacturer part number        | TM3AI8G                                                                |
| Analogue input resolution       | 12 bits 11 bits + sign                                                 |
| Product or component type       | Analog input module                                                    |
| Permissible continuous overload | 13 V, analogue input type: voltage 40 mA, analogue input type: current |

MANUFACTURER DOCUMENTATION

No manufacturer document is linked because exact-SKU or compatible-family evidence has not been recorded.

Document status: This is an InduMarket product specification summary, not a manufacturer-issued datasheet. It is generated from the catalog record for the exact part number. Any linked manufacturer document passed the SKU-compatibility evidence gate. Confirm ratings, compatibility, certifications and any successor reference before ordering.