

INDUSTRIAL AUTOMATION PRODUCT

140ATI03000

Modicon Quantum 8-Channel Thermocouple Input Module

Schneider Electric 140ATI03000 is a Modicon Quantum analog input module for eight thermocouple or millivolt channels. Each channel is individually configurable for the documented sensor type and engineering-unit resolution.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	Schneider Electric
System family	Modicon Quantum
Part number	140ATI03000
Document status	Controlled product and system reference

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Install 140ATI03000 only in the documented Modicon Quantum position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and acquisition of eight individually configured thermocouple or millivolt signals in a Quantum rack before service release.

System Role and Architecture

Schneider Electric 140ATI03000 is a Modicon Quantum analog input module for eight thermocouple or millivolt channels. Each channel is individually configurable for the documented sensor type and engineering-unit resolution.

FUNCTION 1
Eight thermocouple inputs

FUNCTION 2
J, K, E, T, S, R and B support

FUNCTION 3
Two millivolt ranges

FUNCTION 4
Individual channel configuration

RELATED APTER POWER PAGES

1 Schneider Electric 140AI33010

2 Schneider Electric 140CPU43412

3 Schneider Electric 140DSI35300

4 Schneider Electric 140NOE77100

5 Schneider Electric 990XCP98000

6 Schneider Electric 140XTS00200

7 Schneider Electric 140XBP00600

8 Schneider Electric 140NRP95400

9 Schneider Electric 140NOE77111

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	Modicon Quantum
02	Matched Modicon Quantum host or field system
03	Documented power, signal, communication and protective interfaces
04	Approved engineering configuration and acceptance record

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Modicon Quantum
Interface role	acquisition of eight individually configured thermocouple or millivolt signals in a Quantum rack
Field / power context	documented Modicon Quantum installation
Commissioning evidence	Identity, wiring, configuration, diagnostics and controlled response recorded

INSTALLATION AND CONNECTION CHECKS

1 Confirm the complete 140ATI03000 marking and the documented Modicon Quantum 8-Channel Thermocouple Input Module execution.

2 Place the machine, controller and affected process in the approved maintenance state.

3 Isolate all hazardous energy and prove the safe state before disconnecting hardware.

4 Record the installed position, every terminal or port, and the active engineering configuration.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE	PARAMETER	VALUE
Product designation	Thermocouple analog input module	Type B range	-130 to +1820 degC
Automation platform	Modicon Quantum	Selectable resolution	1 degC, 0.1 degC, 1 degF or 0.1 degF
Analog inputs	8	Input data	10 input words
Supported thermocouples	J, K, E, T, S, R and B	Bus current required	280 mA
Millivolt ranges	-100 to +100 mV and -25 to +25 mV	Maximum power dissipation	1.5 W
Type J range	-210 to +760 degC	External supply	Not required
Type K range	-270 to +1370 degC	Channel configuration	Each channel individually configurable
Type E range	-270 to +1000 degC	Approvals	UL 508, CSA 22.2-142, CE and FM Class I Division 2
Type T range	-270 to +400 degC	Official replacement	BMXART0814
Type S / R range	-50 to +1665 degC		

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8 Schneider Electric 140NRP95400

9 Schneider Electric 140NOE77111

ENGINEERING BOUNDARY

Confirm 140ATI03000, its exact Modicon Quantum host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

PRE-INSTALLATION CHECKS

- 1

Confirm the complete 140ATI03000 marking and the documented Modicon Quantum 8-Channel Thermocouple Input Module execution.
- 2

Place the machine, controller and affected process in the approved maintenance state.
- 3

Isolate all hazardous energy and prove the safe state before disconnecting hardware.
- 4

Record the installed position, every terminal or port, and the active engineering configuration.

Applications and Engineering Context

Process-temperature measurement

Acquires configured thermocouple signals from plant sensors.

High-temperature monitoring

Supports documented S, R or B thermocouple installations.

Millivolt sensor acquisition

Reads one of the two official low-level voltage ranges.

Temperature-loop commissioning

Verifies sensor type, polarity, cold-junction practice and scaling per channel.

TECHNICAL NOTE

Install 140ATI03000 only in the documented Modicon Quantum position and preserve its exact wiring, interfaces and configuration. After controlled energization, verify diagnostics and acquisition of eight individually configured thermocouple or millivolt signals in a Quantum rack before service release.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	140ATI03000 recorded
Host / carrier	Modicon Quantum
Physical interface	Installed terminals, ports and signal paths matched to the as-found record
Configuration	Approved hardware and engineering configuration restored
Functional proof	Controlled test confirms acquisition of eight individually configured thermocouple or millivolt signals in a Quantum rack

IMPORTANT NOTICE

Confirm 140ATI03000, its exact Modicon Quantum host, power source, installed position, interfaces, configuration, diagnostics and controlled acceptance evidence before release.

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER

1

Schneider Electric 140AII33010

View Schneider Electric 140AII33010 page

2

Schneider Electric 140CPU43412

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3

Schneider Electric 140DSI35300

View Schneider Electric 140DSI35300 page

4

Schneider Electric 140NOE77100

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Schneider Electric 140NOE77111

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MANUFACTURER SOURCE RECORD

Schneider Electric 140ATI03000 product record and Modicon Quantum catalog | Official manufacturer evidence verified 28 September 2026

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RECOMMENDATION SCOPE

These links support product navigation and comparison. Technical values in this document are sourced only from the manufacturer record above.