

Schneider Electric 140ARI03010

RTD Input Module / Exact identity and technical profile

The exact-model data set defines eight RTD channels, supported resistance-sensor families, resolution and rack loading.

Input count	8 analog channels
Sensor families	Ni/Pt 100, 200, 500 and 1000
Input type	Differential
Resolution	13 bits
Input impedance	≥ 10 MOhm
Linearity error	$\pm 0.01\%$ full scale; ± 0.5 degrees C

TECHNICAL MARKER

Eight RTD input channels

TECHNICAL MARKER

Ni and Pt sensor support

TECHNICAL MARKER

13-bit input resolution

TECHNICAL MARKER

Differential measurement inputs

Technical boundary

The exact model and its published data govern this reference. Similar family names, suffixes or physical appearance do not establish the same electrical or software behavior.

Identity evidence	Read 140ARI03010 from the installed label and procurement record
Function evidence	Confirm the published rtd input module role in the Modicon Quantum system
Configuration evidence	Retain the project, mapping, range, address or interface assigned to this position
Release evidence	Link final diagnostics to a witnessed field or operator response

TECHNICAL DECISION

Accept 140ARI03010 only when its identifier and installed-system role agree.

CHANGE BOUNDARY

Any redesign beyond the documented 140ARI03010 position requires separate engineering approval.

Schneider Electric 140ARI03010

RTD Input Module / Published characteristics

This matrix groups the published 140ARI03010 characteristics that control identification, configuration and engineering review. Each entry remains tied to the exact rtd input module record.

Input count	8 analog channels
Sensor families	Ni/Pt 100, 200, 500 and 1000
Input type	Differential
Resolution	13 bits
Input impedance	≥ 10 MOhm
Linearity error	$\pm 0.01\%$ full scale; ± 0.5 degrees C
Bus current	200 mA
Power dissipation	1 W

INTERPRETATION

Use every 140ARI03010 value with the exact installed configuration.

DESIGN RECORD

Retain the drawing, project and channel or interface assignments that make 140ARI03010 data actionable.

Nameplate check	Manufacturer and full reference agree with the controlled record
Range check	Published operating or signal data agree with the configured use
Interface check	Backplane, terminal, cable, network or memory arrangement is documented
Limit check	Loading, channel count, supply or lifecycle constraint is reviewed
Evidence close	Source title and applicable product record are retained with the decision

NO BORROWED VALUES

Another Schneider Electric suffix cannot fill a missing 140ARI03010 parameter.

ENGINEERING OUTPUT

Record the exact value used, its purpose and any unresolved item before selection.

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RTD Input Module / System role and data flow

RTD temperature acquisition

Reads supported nickel or platinum sensors on eight channels.

Process temperature control

Supplies scaled temperature values to the Quantum application.

Condition monitoring

Tracks machine or utility temperatures through the configured RTD ranges.

Exact module renewal

Restores channel type, wiring method and PLC mapping without borrowing another suffix.

Signal and configuration path

Field layer	Sensors, loads, terminal or operator interface assigned by the design
Module layer	140ARI03010 performs its published rtd input module role
Control layer	PLC project, address map or runtime application interprets the exchanged data
Acceptance layer	Diagnostics and intended process response are witnessed together

Engineering boundary

Application examples describe system roles only. They do not establish automatic interchangeability, replacement approval or suffix equivalence.

Observed input	Field, network or operator condition presented to 140ARI03010
Published action	The documented rtd input module function processes that condition
Configured interpretation	PLC logic, HMI project or station mapping assigns system meaning
Expected output	A defined state, value, message or command is produced
Acceptance proof	The complete path is witnessed under controlled conditions

APPLICATION RECORD

Tie each 140ARI03010 use case to the installed drawing or project tag.

EXCEPTION CONTROL

Document and resolve any behavior that differs from the approved response.

Schneider Electric 140ARI03010

RTD Input Module / Engineering decisions

SUPPORTED IDENTITY

140ARI03010

PUBLISHED FUNCTION

RTD Input Module

SYSTEM CONTEXT

Modicon Quantum

UNSUPPORTED INFERENCE

A nearby model, suffix or family resemblance

Model-specific questions

- How many inputs does Schneider Electric 140ARI03010 provide?**
It provides eight analog input channels for supported RTD sensors.
- What is the Schneider Electric 140ARI03010 input resolution?**
Schneider Electric specifies 13-bit resolution.
- What limits a two-wire RTD on Schneider Electric 140ARI03010?**
Allowable lead resistance depends on the accuracy accepted by the application and must be engineered accordingly.
- What should be checked after installing Schneider Electric 140ARI03010?**
Review module diagnostics and compare each raw and scaled value with a known sensor condition.

- Which sensor materials does Schneider Electric 140ARI03010 support?**
The exact product page lists nickel and platinum RTDs in the supported 100, 200, 500 and 1000 ranges.
- How far can a three- or four-wire RTD be located from Schneider Electric 140ARI03010?**
The manufacturer FAQ gives a maximum cable distance of 200 m for three- and four-wire connections.
- What configuration data must be retained for Schneider Electric 140ARI03010?**
Keep sensor type, channel range, scaling, alarm limits, wiring method and PLC address mapping.
- Can Schneider Electric 140ARI03010C data be applied automatically to 140ARI03010?**
No. Preserve the complete exact identifier and do not transfer suffix-specific facts without exact evidence.

Decision closeout

Close the 140ARI03010 technical review with the exact identifier, applicable published limits and the installed configuration assumptions explicitly recorded.

Question coverage	Identity, function, configuration and field handling addressed
Open item	Any unanswered exact-model point is listed without guessed data
Decision owner	Responsible engineering or maintenance role identified
Supporting record	Drawing, project revision, readings and witnessed result attached

APPROVAL

The 140ARI03010 decision is accepted only within the documented scope.

REVIEW TRIGGER

A different suffix, wiring arrangement, project or application requires a new review.

Schneider Electric 140ARI03010

RTD Input Module / Evidence and support

Exact product	Schneider Electric 140ARI03010
Technical class	RTD Input Module
Platform	Modicon Quantum
Evidence use	Exact-model characteristics and engineering boundary
Record with	Installed drawing, project and acceptance evidence
Retained evidence	Nameplate, source title, configuration baseline and field record
Installation evidence	Isolation, conductor/connector record and post-work inspection
Commissioning evidence	Diagnostics, measurements and intended response
Final record	Responsible witness, date, exceptions and approved disposition

VERIFIED APTER POWER CATALOG REFERENCES

Navigation only; compatibility, substitution and manufacturer endorsement are not implied.

Schneider Electric 140DDO35301

[View Schneider Electric 140DDO35301 page](#)

Schneider Electric 140DDI35310

[View Schneider Electric 140DDI35310 page](#)

MANUFACTURER EVIDENCE RECORD

Schneider Electric 140ARI03010 Product Data and RTD Wiring FAQ

Modicon Quantum exact-model record

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Send the exact model, quantity, destination and requested condition for a quotation.

