

PRODUCT INFORMATION DASHBOARD

Schneider Electric 140ACI04000C

sixteen-channel multirange current input module

The high-density module provides channel indication, broken-wire detection for 4–20 mA operation and defined isolation between the inputs and backplane bus.

PRODUCT ROLE

16 differential current inputs

SYSTEM

Accepts the configured 0–20 mA, 0–25 mA or 4–20 mA signal on each channel.

INTERFACE

0–20, 0–25 and 4–20 mA ranges

SERVICE FOCUS

15 ms update time

Exact-model highlights

- 16 differential current inputs
- 0–20, 0–25 and 4–20 mA ranges
- 17 input-word addressing
- 15 ms update time

Release questions

IDENTITY

Is the complete 140ACI04000C code confirmed?

INTERFACE

Do field signals and companion equipment match?

SETTINGS

Are installed parameters and mappings preserved?

ACCEPTANCE

Have normal, fault and recovery states been tested?

Technical data

Product range	Modicon Quantum automation platform
Product type	Analogue input module
Analogue inputs	16 differential channels
Input ranges	0–20 mA; 0–25 mA; 4–20 mA
Digital ranges	0–16000; 0–20000; 0–25000; 0–4095 counts
Addressing	17 input words
Input impedance	250 ohms
Absolute maximum input	30 mA
Update time	15 ms
Channel-to-bus isolation	1780 V AC for 60 s
Filter	Single-pole low-pass, -3 dB at 34 Hz ±25%
Bus current	360 mA
Power dissipation	5 W
Operating temperature	0–60 °C
Relative humidity	95% non-condensing

Application safeguards

SAFEGUARD 1

Record all sixteen channel assignments, current ranges and scaling before disconnection.

SAFEGUARD 2

Do not exceed the specified 30 mA absolute input limit on any channel.

SAFEGUARD 3

Preserve loop-power, common, shielding and terminal assignments for each field circuit.

SAFEGUARD 4

Verify the selected digital count range matches the controller scaling.

Common applications

High-density transmitter input

Acquires up to sixteen documented field-current channels.

Mixed current-range system

Uses per-project 0–20, 0–25 or 4–20 mA scaling.

Quantum rack renewal

Restores the seventeen-word input map and channel allocation.

Current-loop diagnostics

Uses the channel LEDs and broken-wire status for configured 4–20 mA loops.

Interface checklist

- Field current: Accepts the configured 0–20 mA, 0–25 mA or 4–20 mA signal on each channel.
- Input conditioning: Applies the 34 Hz low-pass filter and selected count scaling.
- Quantum backplane: Transfers seventeen input words plus module and channel status.
- Control application: Uses the approved channel mapping, engineering scaling and fault logic.

Installation snapshot

STEP 1

Match the replacement label to Schneider Electric 140ACI04000C and the approved hardware record.

STEP 2

Review the recorded wiring, interfaces, rack position and configuration before disturbing hardware.

STEP 3

Isolate hazardous energy and prove the required electrical condition at the work point.

STEP 4

Apply grounded ESD controls while handling the electronic assembly or backplane connection.

Model-specific FAQ

Q1 How many inputs does Schneider Electric 140ACI04000C provide?

It provides sixteen differential analogue current-input channels.

Q2 Which current ranges are available on Schneider Electric 140ACI04000C?

The specified ranges are 0–20 mA, 0–25 mA and 4–20 mA.

Q3 How many input words does Schneider Electric 140ACI04000C require?

The module uses seventeen input words in the Quantum address map.

Q4 What is the maximum input current for Schneider Electric 140ACI04000C?

The absolute maximum input is 30 mA.

Q5 What is the update time of Schneider Electric 140ACI04000C?

The documented update time is 15 ms.

Q6 Which fault is detected on Schneider Electric 140ACI04000C 4–20 mA channels?

The module provides broken-wire detection for the 4–20 mA range.

Q7 How should Schneider Electric 140ACI04000C scaling be checked?

Apply known current values and compare the selected count range, raw controller value and engineering-unit scaling.

Q8 What must be preserved when replacing Schneider Electric 140ACI04000C?

Preserve every terminal, loop-power path, shield, current range, channel address and seventeen-word mapping.

Product precautions

- 1

Record all sixteen channel assignments, current ranges and scaling before disconnection.
- 2

Do not exceed the specified 30 mA absolute input limit on any channel.
- 3

Preserve loop-power, common, shielding and terminal assignments for each field circuit.
- 4

Verify the selected digital count range matches the controller scaling.
- 5

Restore the complete seventeen-input-word mapping without shifting channels.
- 6

Review channel and external-fault indications before applying process signals.
- 7

Inject known current values at multiple points on every serviced channel.
- 8

Confirm normal readings and broken-wire response on configured 4–20 mA loops before release.

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Charging board

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Share the exact 140ACI04000C nameplate, application and required quantity for a model-specific quotation.

