FIELD WORKFLOW

Siemens 39RTMCAN

Resistance Temperature Module

Siemens 39RTMCAN is an APACS+ resistance temperature module. Its RTM module type maps to RIC resistance-input and RTD-input channel types in the DP/IO configuration.

Release-gate sequence

1. IDENTIFY
2. ISOLATE
3. INSTALL
4. STATIC CHECK
5. FUNCTION TEST
6. ACCEPT

Before work starts

- Photograph and record the exact 39RTMCAN nameplate.
- Archive the current APACS+ project and channel database.
- Record rack, slot, backplane and connector identity.
- List every configured RIC and RTD channel assignment.
- Label all field conductors before disconnection.
- Review alarms, scaling and engineering-unit records.

Field record essentials

MODEL ID

Record 39RTMCAN exactly.

SYSTEM

APACS+

SETTINGS

Preserve the verified installed configuration.

TEST BASIS

Define static and functional acceptance evidence.

Pre-installation verification

CHECK 01

Photograph and record the exact 39RTMCAN nameplate.

CHECK 02

Archive the current APACS+ project and channel database.

CHECK 03

Record rack, slot, backplane and connector identity.

CHECK 04

List every configured RIC and RTD channel assignment.

CHECK 05

Label all field conductors before disconnection.

CHECK 06

Review alarms, scaling and engineering-unit records.

CHECK 07

Prepare known references for channel acceptance.

CHECK 08

Confirm the work package does not rely on a related model's specifications.

Interface inventory

- 39RTMCAN occupies the RTM module role in the APACS+ architecture.
- RIC is the published resistance-input channel type for an RTM.
- RTD is the published RTD-input channel type for an RTM.
- The DP/IO SDB calculator assigns 638 bytes to an RTM module instance.
- Field circuits must be reconciled with the exact installed APACS+ drawings.
- Rack, backplane and connector identity must be taken from the physical system record.
- Channel database assignments must be archived before module service.
- No QUADLOG or suffixed 39RTMCAN data is transferred to this unsuffixed model record.

Hold point

Do not continue if the complete model, field-circuit identity, stored settings, protective functions or safe isolation state cannot be verified. Preserve existing wiring records and escalate the exact unresolved item.

Installation sequence

1. Place the affected process functions in an approved safe state.
2. Isolate rack power and field circuits under the plant procedure.
3. Label and disconnect conductors without changing channel order.
4. Remove the installed RTM and inspect rack and connector condition.
5. Confirm the replacement nameplate is exactly 39RTMCAN.
6. Seat the module in the documented slot and reconnect labeled circuits.
7. Restore power and verify the APACS+ database recognizes the RTM.
8. Test each configured RIC or RTD channel against an appropriate reference.

Commissioning and acceptance

GATE 1
Exact 39RTMCAN identity recorded

GATE 2
APACS+ project archive secured

GATE 3
Rack and slot reconciled

GATE 4
RIC and RTD mappings preserved

GATE 5
Field wiring inspected

GATE 6
Module recognized by the system

GATE 7
All configured channels reference-tested

GATE 8
Alarm and acceptance records completed

Fault-response checks

- Module not recognized: compare rack, slot and APACS+ database assignment before replacing hardware.
- One channel fails: inspect the field circuit, terminal and configured RIC or RTD type.
- Several channels fail: check common rack, connector and database conditions first.
- Scaling mismatch: restore the archived channel engineering configuration instead of guessing a range.
- Resistance reading mismatch: separate field-circuit resistance from module or database behavior using an appropriate reference.
- RTD reading mismatch: verify the field circuit and exact project configuration without importing another model's wiring data.

Acceptance boundary

Release only after the normal state, commanded state, principal fault state and recovery behavior have all been observed at the field device, module and control-system indication.

Reference and handover

SOURCE 1 — Siemens APACS+ and QUADLOG Product Line Phase Out Announcement, Appendix A, exact 39RTMCAN designation.

SOURCE 2 — Siemens PCS 7 APACS+ DP/IO Bus Link V2 documentation, RTM module size and RIC/RTD channel mappings.

Related products

Verified related products on ApterPower

Siemens 6ES5928-3UB12
SIMATIC S5 central controller module
View Siemens 6ES5928-3UB12

Siemens 6AV6647-0AG11-3AX0
SIMATIC operator interface
View Siemens 6AV6647-0AG11-3AX0

Siemens 6SE7028-0ES87-2DA1
SIMOVERT braking module
View Siemens 6SE7028-0ES87-2DA1

CONFIGURATION
Final settings and mappings archived

WIRING
Terminal and conductor labels reconciled

TEST RECORD
Measured results and fault tests retained

OPERATIONS
Normal indication and response briefed

Contact Apter Power

PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com

Share the exact 39RTMCAN nameplate, application and required quantity for a model-specific quotation.