

NRDI02 field workflow

Identity, safe replacement and controlled acceptance

01 / Establish exact identity

Confirm the complete model, article identity where present, product family and recorded installed-system position.

02 / Capture the as-found state

A correct replacement preserves the physical termination assignment and the electrical class of every connected field circuit. Acceptance therefore depends on the installed point schedule and a controlled state change at each affected input.

03 / Control the process

Place all affected 240 VAC field circuits and controlled process functions in the approved maintenance state.

04 / Prove the restored function

Release NRDI02 only after every restored input passes the approved functional-acceptance record.

Before removal

Eight exact-model checks that form the maintenance hold point

CHECK 1	Confirm the exact NRDI02 marking and its recorded cabinet or termination position.
CHECK 2	Place all affected 240 VAC field circuits and controlled process functions in the approved maintenance state.
CHECK 3	Record terminal numbers, wire markers, commons and controller point addresses before disconnection.
CHECK 4	Prove absence of hazardous voltage with the approved test method before touching field conductors.
CHECK 5	Do not substitute another NRDI or digital-input terminal unit from appearance or voltage assumption alone.
CHECK 6	Restore the documented conductor-to-terminal mapping and maintain the original separation and grounding scheme.
CHECK 7	Exercise each affected field contact under authorization and compare local indication with controller diagnostics.
CHECK 8	Release NRDI02 only after every restored input passes the approved functional-acceptance record.

Installation sequence

Restore the documented hardware, wiring and configuration boundaries

1. Inspect identity and condition

Check the exact model marking, connectors, terminals and service condition before the component enters the controlled installation area.

2. Match the installed position

Use the recorded rack, node, channel or machine position; do not infer suitability from a similar front label.

3. Restore field connections

Do not substitute another NRD1 or digital-input terminal unit from appearance or voltage assumption alone.

4. Restore configuration

Restore the documented conductor-to-terminal mapping and maintain the original separation and grounding scheme.

5. Re-energize under control

Apply the approved plant sequence and compare initial module indications with the captured as-found record.

Commissioning and acceptance

Tests must follow the actual channel map and controlled process state

Identity	Installed model and article identity match the maintenance record.
Connections	All documented terminals, connectors and companion devices are restored.
Configuration	Recorded settings, ranges, filters or addresses are restored without borrowing nearby values.
Diagnostics	Module indication and controller diagnostics agree with the controlled test state.
Channel proof	Exercise each affected field contact under authorization and compare local indication with controller diagnostics.
Process proof	Release NRDI02 only after every restored input passes the approved functional-acceptance record.
Documentation	Final identity, test results and acceptance authority are retained with the work record.
Release	The affected system returns to service only after the approved acceptance hold point.

Service record and support

Manufacturer sources, verified related pages and direct contact

MANUFACTURER EVIDENCE BASIS

- ABB NRD102 product page
- ABB NRD102 Product Details record

External manufacturer URLs are intentionally omitted from this document.

VERIFIED RELATED ABB PRODUCT PAGES

01	ABB BC810K01 3BSE031154R1	Open verified ApterPower page
02	ABB TB811 3BSE008568R1	Open verified ApterPower page
03	ABB CI857K01 3BSE018144R1	Open verified ApterPower page
04	ABB PM866K01 3BSE050198R1	Open verified ApterPower page
05	ABB CI854AK01 3BSE030220R1	Open verified ApterPower page
06	ABB CI830 3BSE013252R1	Open verified ApterPower page
07	ABB CI840A 3BSE041882R1	Open verified ApterPower page
08	ABB CI801 3BSE022366R1	Open verified ApterPower page

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