Bently Nevada 136711-02

ENGINEERING GUIDE | Replacement and acceptance path

Use the actual rack drawing, hazardous-area control drawing and site isolation procedure. This guide organizes the documented checks for the 136711-02 spare; it does not change the approved installation.

01 Pre-work evidence

Record	Complete rear I/O marking, front monitor type, rack slot, software and monitor firmware.
Identify	Each connected RTD or thermocouple circuit, cable route, terminal assignment and hazardous-area boundary.
Archive	Rack configuration, channel types, alarm setpoints and recorder scaling where used.
Confirm supply	Inspect the offered I/O assembly and any included terminal hardware against the quotation.

02 Go / no-go compatibility matrix

Host monitor	3500/61; confirm the actual front card and its 1.06 E or later firmware.
Rack project	Configuration Software 2.3 or later for internal barriers.
IS earthing	Dedicated 3500/04-01 module and approved backplane earth path.
Field termination	Internal; reject an external-termination conversion.
Rack topology	No TMR option with internal-barrier I/O.
Cabinet access	Allow for greater I/O depth and maintenance access.

03 Physical exchange sequence

01 Isolate	Place the affected channel and machine in the approved maintenance state. Apply site hazardous-area and electrical isolation rules.
02 Document	Photograph all terminal and shield positions before disconnection; retain the original rack slot and device identity.
03 Inspect	Check the offered card, terminal condition, label and barrier housing; reject damage or mismatched execution.
04 Install	Seat the card in the documented slot, restore the internal terminations and inspect the dedicated IS earth.
05 Segregate	Trace safe and hazardous wiring; verify the rack layout retains required separation.
06 Configure	Confirm the host monitor sees the correct channels and the saved settings remain appropriate.

04 Commissioning matrix

RTD input	Apply a controlled reference resistance appropriate to the configured sensor; check indicated temperature and alarm action.

TC input	Apply a suitable thermocouple simulator; check type, polarity and compensation in the installed configuration.
Recorder output	Check the host 3500/61 output loop and scaling separately from the sensor indication.
Barrier circuit	Confirm the earthing and field-circuit arrangement against the approved control drawing.
Return to service	Record test results, open exceptions and authorization before restoring protection.

05 Fault isolation

No temperature change

Check sensor type, field lead allocation, internal termination and front monitor channel configuration.

Unexpected offset

Compare transducer specification and wiring with the saved channel setup before changing calibration.

Recorder mismatch

Check host output assignment, loop wiring and scaling after proving the temperature input.

Barrier concern

Stop and inspect IS earth, approved drawing and wiring segregation before energizing.

06 Acceptance record

Retain the exact 136711-02 marking, monitor and firmware identities, rack slot, IS earth verification, each channel test, alarm action, recorder response and final plant authorization.

07 Handover evidence

Identity photo	Store readable views of the 136711-02 label, barrier assembly and terminal position.
Rack record	Record the 3500/61 front-monitor marking, rack slot and 3500/04-01 earthing-module location.
Configuration	Archive the Rack Configuration Software revision and the monitor firmware before changes.
Channel register	For each used input, retain RTD or TC type, terminal allocation, engineering units and alarm settings.
Output register	Where recorder outputs are used, retain loop assignment, scaling and the observed test result.
IS drawing	Attach the approved control drawing and record safe-area / hazardous-area cable segregation.
Release	Name the person who checked the functional result and the person who authorized return to service.

Technical basis: Bently Nevada 141495 Rev. R and 141540 Rev. L. All installation limits apply to the approved complete 3500 system.

Discuss the complete 136711-02 spare and installed rack revision with Apter Power.

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