Bently Nevada 80173-110-02

Installation & Commissioning Guide

Bently Nevada 80173-110-02 is a distinct circuit-board assembly for a compatible legacy machinery-monitoring unit.

PRODUCT ROLE AND TECHNICAL FEATURES

Feature 1

Uses the -02 execution of the 80173-110 board family.

Feature 2

Fits an internal legacy monitoring-system position.

Feature 3

Requires exact connector orientation and configuration retention.

Feature 4

Supports full channel and alarm-path verification after installation.

TECHNICAL DATA SNAPSHOT

Component class	Circuit-board assembly
Execution	-02 board variant
System context	Legacy machinery-monitoring hardware
Installation role	Internal service assembly

SYSTEM RELATIONSHIP

Field device → **Product interface** → **System channel** → **Verified response**

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Pre-installation readiness

READINESS GATE

Identity

Compare the complete marking with the approved work order and installed record.

System match

Confirm the receiving channel, mating components and controlled configuration.

Physical condition

Inspect mounting surfaces, connectors, terminals, cable and support hardware.

Work controls

Apply authorized isolation, bypass, access and restoration procedures.

TECHNICAL PROFILE FOR THE WORK

Component class	**Execution**
Circuit-board assembly	-02 board variant
System context	**Installation role**
Legacy machinery-monitoring hardware	Internal service assembly
Interface boundary	**Configuration control**
Original connectors and harness routing	Board revision, links and installed settings
Handling requirement	**Acceptance method**
ESD-controlled removal and installation	Self-test, channel response and alarm-path verification

IMPORTANT NOTICE	Resolve every unmatched interface, configuration or receiving-system condition before removal or installation.

DOCUMENT AND WORK CONTROLS

Manufacturer document	ApterPower product-specific technical reference
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

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Installation sequence

CONTROLLED WORK STEPS

01	Confirm the complete 80173-110-02 marking and the documented circuit board assembly position.
02	Place the affected machine protection channel in the approved maintenance state.
03	Record the installed component class, execution and system context before removal.
04	De-energize the associated monitor, sensor supply or field circuit as the procedure requires.
05	Label every connector, conductor and shield before separation.
06	Inspect mating contacts, mounting hardware and cable condition before installation.
07	Restore the retained configuration and verify signal polarity and proportional response.
08	Function-test the complete alarm, indication and shutdown path before returning the machine to service.

CONNECTION RECORD

As found	Photograph and label every connection and installed orientation before removal.
Mechanical	Record mounting position, support, clearance and connector engagement.
Electrical	Record polarity, common, shield, channel assignment and cable route.
Configuration	Preserve approved settings, scaling, alarm logic and acceptance limits.
As left	Record the final physical condition and any controlled deviation.

Field device → **Product interface** → **System channel** → **Verified response**

WORK HOLD POINTS

Before removal	Identity, position, wiring, orientation and controlled settings recorded.
Before connection	Mating interfaces, condition and routing reviewed.
Before power-up	Mechanical work, wiring, shielding and configuration independently checked.
Before release	Static value, dynamic response and protection behavior accepted.

Commissioning and functional proof

COMMISSIONING SEQUENCE

Initial state

Observe status at power-up and check for unexpected fault or alarm indication.

Static value

Verify the expected bias, gap, loop, contact or channel value for the application.

Dynamic response

Apply the approved machine or test stimulus and confirm response and scaling.

Protection path

Verify the configured alarm, relay, data or receiving-system behavior.

APPLICATION-SPECIFIC CHECKS

Exact-variant replacement

Prevents substitution of a different 80173 board.

Legacy electronics support

Restores the original internal assembly.

Controlled maintenance

Preserves revision and link settings.

System commissioning

Verifies the affected channel and alarm functions.

ACCEPTANCE RECORD

Identity	Complete marking and final installed position recorded.
Physical inspection	Mounting, connectors, terminals and routing checked.
Channel status	Expected status and configured measurement confirmed.
Functional test	Required output or protection response demonstrated.
Restoration	Bypasses removed and operating state approved.

COMMISSIONING QUESTIONS

Why verify component class for Bently Nevada 80173-110-02?	The documented component class is Circuit-board assembly; confirm it against the installed record.
Where is execution used by Bently Nevada 80173-110-02?	The documented execution is -02 board variant; confirm it against the installed record.

Release record and technical references

CLOSEOUT QUESTIONS

What controls system context on Bently Nevada 80173-110-02?	The documented system context is Legacy machinery-monitoring hardware; confirm it against the installed record.
How is installation role tested on Bently Nevada 80173-110-02?	The documented installation role is Internal service assembly; confirm it against the installed record.
Which record preserves interface boundary for Bently Nevada 80173-110-02?	The documented interface boundary is Original connectors and harness routing; confirm it against the installed record.
Which configuration control applies to Bently Nevada 80173-110-02?	The documented configuration control is Board revision, links and installed settings; confirm it against the installed record.
How is handling requirement set on Bently Nevada 80173-110-02?	The documented handling requirement is ESD-controlled removal and installation; confirm it against the installed record.
What acceptance method belongs to Bently Nevada 80173-110-02?	The documented acceptance method is Self-test, channel response and alarm-path verification; confirm it against the installed record.

RELATED MODELS FOR INSTALLATION PLANNING

Bently Nevada 128031-01	Installation-planning reference. Review the complete ordering string before selection.
Bently Nevada 125720-02	Installation-planning reference. Compare the required interface and system position.
Bently Nevada 3500/61 136711-02	Installation-planning reference. Confirm the execution independently for the intended task.

MANUFACTURER DOCUMENT AND FINAL CONTROL

Manufacturer document	ApterPower product-specific technical reference
Application scope	The values below apply to the identified product and its documented system relationship.
Selection rule	Use the complete ordering string and confirm the installed interfaces before selection.

IMPORTANT NOTICE	Release the equipment only after the responsible site authority accepts the recorded result.

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