Bently Nevada 3500/94 190214-01

01 Function and selected configuration

Product function

Bently Nevada 3500/94 190214-01 maintains the field connection boundary between the rack display assembly and its operator interface.

Selected configuration

The 190214-01 selection is the normal I/O component in the 3500/94M display system. It must be paired with the main VGA module and the applicable screen/cable arrangement. It is not the 190214-02 power-only I/O selection for a front-mounted display.

Functional path

3500 rack data

VGA module / I/O

Video and touch paths

Operator screen

Assembly role	Normal display I/O
Video interface	Analog VGA:RGB and sync
Touch interface	RS232

The system uses analog VGA video and RS232 touch-controller data. Standard display/router cabling reaches up to 6 m from a rack. The optional display-router arrangement allows one display to view up to four racks, while retaining the cable and component requirements for each rack.

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02 Technical operating envelope

Assembly role	Normal display I/O
Video interface	Analog VGA:RGB and sync
Touch interface	RS232

System direct cable	Up to 6 m
System custom screens	Up to 9
Optional router	Up to 4 racks

The complete system controls display reach and screen functions. No unsupported hardware interchangeability is implied by similar 3500 display names.

Signal interpretation

The system uses analog VGA video and RS232 touch-controller data. Standard display/router cabling reaches up to 6 m from a rack. The optional display-router arrangement allows one display to view up to four racks, while retaining the cable and component requirements for each rack.

Interface boundary

Remote viewing over distances up to 10 km requires the supported single-mode fiber KVM extension arrangement. The KVM transmitter and receiver must be in a safe area or approved enclosure. System screen counts, power and display functions describe the assembled 3500/94M arrangement rather than independent processing features or ratings of this I/O card.

Which display-interface signals are associated with the system using 3500/94 190214-01?

The 3500/94M arrangement uses analog VGA video and RS232 touch-controller data. Retain the applicable rear-connection arrangement for the normal I/O selection.

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03 System integration and applications

Rack information display

Present channel values, events and alarm/OK states from the assigned rack.

Multi-rack operator view

Use the supported router configuration for up to four racks.

Remote display arrangement

Use a supported fiber KVM for extended reach with the required location protection.

Display-path maintenance

Verify both video and touch interaction after restoring the affected assembly.

System and supply context

3500/94 190214-01 is used with the matching 3500 display components. The touch screen, router, KVM and cables are separate unless itemized.

Application boundary

Display and router capabilities apply to the correctly assembled system. Do not infer a complete operator station from a main or I/O board alone.

Does 3500/94 190214-01 by itself provide the operator screen?

No. The normal I/O card forms part of a display system requiring the corresponding main module, display and applicable connections.

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04 Engineering selection decisions

What component is 190214-01 within 3500/94 190214-01?

It is the normal I/O module for the 3500/94M display arrangement. It is separate from the main VGA module and display screen.

How does 3500/94 190214-01 differ from the 190214-02 I/O selection?

190214-01 is the normal I/O module.190214-02 is the power-only I/O selection for a front-mounted display; they must not be treated as identical wiring arrangements.

What must be retained when a router box is connected through the system containing 3500/94 190214-01?

Keep the rack identities, cable assignments and supported display-router arrangement. The router can combine up to four racks, but requires the correct components and cabling.

What functional checks are needed after exchanging 3500/94 190214-01?

Verify restored video, touch interaction, rack data and alarm/OK presentation through the actual connected system. A seated I/O card alone does not prove the display path.

Restore the matching hardware	Fit the intended main/I/O components and preserve normal versus power-only I/O selection. Reconnect the existing video, touch and power circuits by label.
Check data and event presentation	Compare live channel data, alarm/OK states and event lists with the intended rack. For a router, test selection and state indication for every connected rack.

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05 Configuration boundary and references

Lifecycle and support

The current manufacturing and factory-support phase of 3500/94 190214-01 is not confirmed. Apter Power availability is assessed separately from manufacturer lifecycle status.

Replacement assessment

Match main module, normal/power-only I/O, screen and cable arrangement. Verify actual rack identity and operator functions after replacement.

Document roles

Use the original manufacturer excerpt for its preserved technical tables and drawings. This product brief explains selection and system context. The separate installation guide covers preparation, connection, tests and handover; it does not replace manufacturer instructions.

Technical basis

Bently Nevada 3500/94M VGA Display Monitor, 122M3217 Rev. N.

Related product navigation

- Bently Nevada 991-01-XX-01-00 MOD:284318-01
- Bently Nevada 991-01-XX-01-CN

These are related references, not confirmed substitutes or an automatically approved assembly.

Product enquiries