

3500/94 145988-01

3500/94 legacy VGA display module

High-speed rack data to VGA display and RS-232 touch controller

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3500 VGA display system

PART

3500/94 145988-01

ORIGIN / HS

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PRODUCT OVERVIEW

High-speed rack data to VGA display and RS-232 touch controller

1

Uses high-speed rack data

2

Supports a VGA operator display

3

Provides RS-232 touch-controller communication

4

Reports operating state through OK and COMM indicators

SYSTEM COMPONENTS

3500 monitoring rack

compatible VGA display

RS-232 touch controller

approved display and configuration cabling

TECHNICAL NOTE

Verify 3500/94 145988-01, the display-system assembly role, rack communications cable, VGA output, touch-controller link and configured display database before replacement; test OK and COMM indications after restart.

TECHNICAL DATA

PARAMETER	VALUE
Complete model	3500/94 145988-01
Assembly	145988-01
Rack data interface	High-speed 3500 serial data
Display output	VGA
Touch-controller interface	RS-232

PARAMETER	VALUE
Status indicators	OK and COMM LEDs
Power consumption	4.6 W maximum
Operating temperature	-30 to +65 degC
Storage temperature	-40 to +85 degC
Humidity	95%, noncondensing

ENGINEERING NOTE

Verify 3500/94 145988-01, the display-system assembly role, rack communications cable, VGA output, touch-controller link and configured display database before replacement; test OK and COMM indications after restart.

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
Bently Nevada 330102 40 70 10 02 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330102 40 70 10 02 00 page
Bently Nevada 330102 20 55 10 02 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330102 20 55 10 02 00 page
Bently Nevada 330102 60 96 10 02 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330102 60 96 10 02 00 page
Bently Nevada 330102 60 90 10 02 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330102 60 90 10 02 00 page
Bently Nevada 330102 30 65 10 02 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330102 30 65 10 02 00 page
Bently Nevada 330103 00 05 90 12 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330103 00 05 90 12 00 page
Bently Nevada 330104 00 05 90 02 00	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330104 00 05 90 02 00 page
Bently Nevada 330101 00 70 10 02 CN	Related Bently Nevada machinery-monitoring product	View Bently Nevada 330101 00 70 10 02 CN page

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Local rack status display

Uses high-speed rack data

Operator machinery overview

Supports a VGA operator display

Maintenance diagnostics station

Provides RS-232 touch-controller communication

3500 display-system renewal

Reports operating state through OK and COMM indicators

PRODUCT PRECAUTIONS

- 1 Verify the complete 3500/94 145988-01 marking and its assigned 3500 VGA display system position before work.
- 2 Place the connected local rack status display process in the approved maintenance state.
- 3 Isolate applicable power and high-speed rack data to vga display and rs-232 touch controller field energy before disconnecting conductors.
- 4 Record connector, conductor, address, firmware and software identities before removal.
- 5 Use ESD controls and protect keyed interfaces, exposed contacts and electronic assemblies.
- 6 Confirm the installed 3500 monitoring rack and compatible VGA display against the approved project.
- 7 Restore power in a controlled sequence and review device, network and host diagnostics.
- 8 Prove the intended operator machinery overview function and retain the final test result.

ENGINEER FAQ

Q1 Does 3500/94 145988-01 match 3500 monitoring rack in a Local rack status display installation?

Verify the complete 3500/94 145988-01 marking, the documented 3500 VGA display system position and the installed 3500 monitoring rack before fitting the assembly.

Q2 How should 3500/94 145988-01 be wired when it must uses high-speed rack data?

Isolate the circuit, identify every terminal and reproduce the approved polarity, shield and channel assignment for 3500/94 145988-01; then continuity-test the affected path.

Q3 Which 3500 VGA display system records should be captured before removing 3500/94 145988-01?

Record the as-found wiring, installed position, active configuration and diagnostic state associated with 3500/94 145988-01 before disconnection.

Q4 What controlled test confirms that 3500/94 145988-01 can supports a vga operator display?

Apply the approved field or simulated stimulus, observe the 3500 VGA display system indication and confirm the intended response without bypassing the normal interlocks.

Q5 Which compatible VGA display condition should be checked when 3500/94 145988-01 reports an abnormal state?

Check the compatible VGA display supply, seating and connection first, then compare channel diagnostics with the recorded 3500/94 145988-01 baseline.

Q6 Can 3500/94 145988-01 be moved directly into Operator machinery overview without validating approved display and configuration cabling?

No. Confirm the approved display and configuration cabling, revision, connection scheme and 3500 VGA display system configuration before transferring 3500/94 145988-01 to that duty.

Q7 What maintenance evidence is required after 3500/94 145988-01 is used for Maintenance diagnostics station?

Retain the nameplate record, corrective action, final diagnostics and a controlled maintenance diagnostics station functional-test result for 3500/94 145988-01.

Q8 How should 3500/94 145988-01 be returned to service in 3500 display-system renewal?

Restore power under control, verify provides rs-232 touch-controller communication, exercise the intended signal path and release 3500/94 145988-01 only after the 3500 VGA display system remains in its approved operating state.

SOURCE Bently Nevada 3500/94M VGA Display Monitor Datasheet | 122M3217 Rev. N

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