3500/94M VGA Display Monitor Datasheet

Bently Nevada Machinery Condition Monitoring



Description

The 3500/94M VGA module displays all 3500 machinery protection system information, including:

- System event list
- Alarm event list
- All module and channel data
- Alarm and OK status
- Nine custom display options

Use the 3500 Rack Configuration Software to configure up to nine custom screens. By default, one bar graph screen shows all of the IX-filtered vibration measurements, while another shows the proximity transducer gap values.

You can organize custom screens into machine train groups. You can also organize system data into any pages on the custom screen.

System Components

The 3500/94M is comprised of:

- The 3500/94M VGA module
- An I/O module
- A 10" or 15" VGA touch screen display

You can mount the VGA display monitor using standard cables up to 6 m (20 ft) from a 3500 rack, or using a supported Keyboard Video Monitor (KVM) Extender, up to 10 km (6.2 miles) from the 3500 rack.



Touch Screen Displays

Use either the 10" and 15" Advantech VGA touch screen displays. These compact, durable displays are designed for excellent viewing quality in industrial applications.

The 10" Advantech display is certified for hazardous environments. Each display requires a separate power supply. The 3500 Rack Configuration Software supports both display drivers.

Reduce the Number of Displays

Using a standard cable and the optional Display Router Box, you can view data from up to four 3500 racks on one display.

The alarm and OK status is continually displayed in the upper right corner of the VGA display. A rack select button changes color to indicate if any rack connected to the Display Router Box is Not OK or in Alarm status.

Due to limitations imposed by the VGA standard, the Display Router Box must be located within 6 m (20 ft) of each connected 3500 rack. Longer cables are not recommended because they may degrade image quality. Noisy electronic environments also degrade image quality.

Access Data Remotely

If you need to display 3500 data at a greater distance, you have two options.

Distance from Display Router Box	Options	Notes
m (21–1.000	Wired CAT5 UTP Keyboard Video Monitor (KVM) Extender	Minor loss in image quality.
		The receiver is certified for Class I, Division 2 hazardous area installations in North America.
		When using the wired CAT5 UTP KVM Extender, you can tune image quality using a PS/2 keyboard (not supplied) as described in the 3500/94M VGA Display Module Operation and Maintenance Manual (document 122M3218).
> 10 m −10 km (33 ft− 6.2 mi)	Single-mode, fiber optic (SMFO) Keyboard Video Monitor (KVM) Extender	No loss in image quality. Not certified for hazardous locations. Must be installed in a safe area or in an approved enclosure.

Only the wired KVM receiver is certified for Class I, Division 2 hazardous area installations in North America. The transmitter is not and must be installed in a safe area or enclosed in an approved enclosure.

The SM FO KVM receiver and transmitter are not certified for hazardous area installations. Both the receiver and the transmitter must be installed in a safe area or enclosed in an approved enclosure.



Accessories and Spares

3500/94M Module Accessories and Spares

122M3217	3500/94M VGA Display Monitor Product Datasheet
122M3218	3500/94M VGA Display Module Operation and Maintenance Manual
184826-01	3500/94M Main module
190214-01	3500/94M Normal I/O module
190214-02	3500/94M Power-only I/O module for front-mount display

3500/94M Advantech 10" Display Accessories

For display monitor specifications, <u>See Display</u> <u>Monitor Specifications on page 7.</u>

120M8155-01	ANA-D3510-100-A1, Advantech 10″ display. Does not include mounting screws.		
Front Mounting Accessories and Spares			
122M3368-01	94M face mount for Advantech 10" display		
122M4631-AA	Mounting standoff for face mount display with threaded mounting holes for 19" EIA rack.		
	AA : mounting hole thread size. Choose one:		
	01 – M6 x 1 02 – 10-32 03 – M5 x 0.8		
107M3696-01	3 ft (.91 m) v Video, serial, and power cable from front of rack- mounted 3500/94M Module to the 10" Advantech display. Note that cable assembly 119M6503-		

(190214-02) to an industrial 24 VDC power supply. 10 ft (3.05 m). Note that cable assembly 107M3696-01 is also required from the front of the 3500/94M Module to the display.0220079424V DIN mount power supply with no cableOther Mounting Accessories122M3369-0194M rack mount for Advantech 10" display122M3370-0194M panel mount for Advantech 10" display122M3371-0194M independent mount for Advantech 10" display122M3371-0194M independent mount for Advantech 10" display19M6509-01Power supply cable for 10" Advantech Display that connects from the display to an industrial 24 VDC power supply. 10 ft (3.05 m).161087-AA- 00VGA male-male cable for display to 3500/94M I/O AA: cable length. Choose one: 10 - 10 ft (3.05 m) 20 - 20 ft (6.1 m)148638-AADB-9 male-female cable for		
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20 - 20 ft (6.1 m) 148638-AA DB-9 male-female cable for		AA : cable length. Choose one:
3500/94 Display Router Box.	148638-AA	display to 3500/94M I/O or
AA : cable length. Choose one:		AA : cable length. Choose one:
01 – 10 ft (3.05 m)		01 - 10 ft (3.05 m) 02 - 25 ft (7.62 m)

