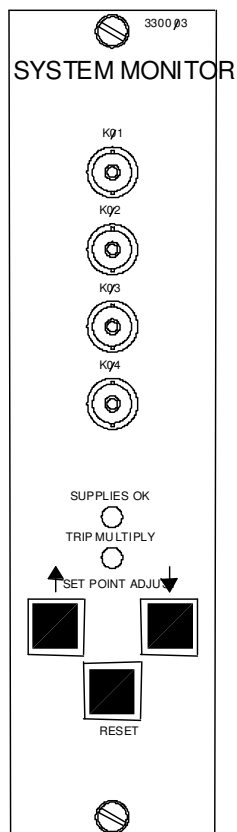


3300/03 System Monitor

Bently Nevada™ Asset Condition Monitoring



Description

The System Monitor performs four important tasks in a 3300 monitor rack, providing:

- Functions common to all monitors in the rack, such as:
 - Alarm setpoint adjustment
 - Keyphasor® power, termination, conditioning, and distribution
 - Alarm acknowledgement
- Connection of all installed monitors to an external communications processor (sold separately) via STATIC and DYNAMIC data ports.
- Optional Serial Data Interface (SDI) for communication of transducer and monitor data to process computers, digital/distributed control systems, programmable controllers, and other control and automation systems.
- Optional Dynamic Data Interface (DDI) for communication of transducer and monitor data to compatible Bently Nevada machinery management software. Depending on the type of data required, this option may eliminate the need for an external communications processor.

Warning

A transducer field wiring failure, monitor failure, or loss of primary power can cause loss of machinery protection. This could result in property damage and/or bodily injury. Therefore, we strongly recommend connection of an external (operator control panel mounted) annunciator to the OK Relay terminals.



imagination at work

Specifications and Ordering Information
Part Number 141524-01
Rev. F (04/07)

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Supports both a Trend and Fast Trend for all proportional data.

System Ok Relay

One hermetically sealed, normally energized, single-pole double-throw relay is used for annunciation of a NOT OK condition in the monitoring rack and/or a problem with the primary (mains) power to the rack.

Contact Ratings - Standard:

5A at 28 Vdc

5A at 120 Vac, 50/60 Hz

3A at 220 Vac, 50/60 Hz

CSA Approval:

5A at 28 Vdc

5A at 120 Vac, 50/60 Hz

ATEX approval:

5A at 28 Vdc

5A at 30 Vac, 50/60 Hz

Ordering Information

System Monitor 3300/03-AXX-BXX

A: Type

- 01 Standard
- 02 Serial Data Interface
- 03 Dynamic Data Interface and Serial Data Interface

B: Approvals Option

- 00 None
- 01 CSA/NRTL/C
- 02 ATEX self certification

Note: ATEX approval requires the monitor rack be installed in a weatherproof housing.

Upgrade Kit 143121

- 01 Basic to SDI upgrade
- 02 SDI to DDI upgrade
- 03 Basic to DDI upgrade

Accessories

Serial Data Interface Cables

RS232 3300/03 to Allen-Bradley 1770-KF2 Communication Module or Honeywell PLC® Gateway or Data Highway
89968 - AXXXX-BXX-CXX

RS232 3300/03 to Allen-Bradley 1771-KE or 1785-KE Communications Module
89969 - AXXXX-BXX-CXX

RS422 3300/03 to Allen-Bradley 1770 KF2 Communications Module
89970 - AXXXX-BXX-CXX

A: Cable Length

- 0010 10 feet (3 metres)
- 0025 25 feet (7.5 metres)
- 0050 50 feet (15 metres)
- 0100 100 feet (30 metres)

B: Assembly Option

- 01 Not Assembled
- 02 Assembled

C: Protection Option

- 00 No Surge Protection
- 01 Surge Protection provided

RS422 3300/03 to 3300/03
47125 - AXXXX-BXX-CXX-DXX

A: Cable Length

- 0010 10 feet (3 metres)
- 0025 25 feet (7.5 metres)
- 0050 50 feet (15 metres)
- 0100 100 feet (30 metres)
- 0200 200 feet (61 metres)
- 0250 250 feet (76 metres)
- 0500 500 feet (152 metres)
- 1000 1000 feet (305 metres)
- 2000 2000 feet (610 metres)*
- 4000 4000 feet (1220 metres)*

* **Note:** Can not be ordered assembled.

B: Assembly Option

- 01 Not Assembled
- 02 Assembled

C: Insulation Option

- 01 PVC Insulated
- 02 Teflon® Insulated

D: Protection Option

0 0	No Surge Protection
0 1	Surge Protection provided

RS422 3300/03 to 3300/01

(3300/01 electrically closest to host computer)

89966 - AXXXX-BXX-CXX**RS422 3300/01 to 3300/03**

(3300/03 electrically closest to host computer)

89967 - AXXXX-BXX-CXX**A: Cable Length**

0 0 1 0	10 feet (3 metres)
0 0 2 5	25 feet (7.5 metres)
0 0 5 0	50 feet (15 metres)
0 1 0 0	100 feet (30 metres)
0 2 5 0	250 feet (76 metres)
0 5 0 0	500 feet (152 metres)

B: Assembly Option

0 1	Not Assembled
0 2	Assembled

C: Surge Protection

0 0	No Surge Protection
0 1	Surge Protection Provided

Dynamic Data Interface Cables**3300/03 to Bently Nevada host (DM2000) computer; RS422**

{9-pin female to 25-pin female}

132632 - AXXXX-BXX
(PVC Insulation)**132633 - AXXXX-BXX**
(Teflon® Insulation)**A: Cable Length**

0 0 1 0	10 feet (3 metres)
0 0 2 5	25 feet (7.5 metres)
0 0 5 0	50 feet (15 metres)
0 1 0 0	100 feet (30 metres)
0 2 5 0	250 feet (76 metres)
0 5 0 0	500 feet (152 metres)

B: Assembly Option

0 1	Not Assembled
0 2	Assembled

3300/03 to Bently Nevada host computer (IBM® compatible); RS232**89949 - AXXXX-BXX-CXX****3300/03 to Bently Nevada host computer (Compaq or Intel); RS232****89950 - AXXXX-BXX-CXX****A: Cable Length**

0 0 1 0	10 feet (3 metres)
0 0 2 5	25 feet (7.5 metres)
0 0 5 0	50 feet (15 metres)
0 1 0 0	100 feet (30 metres)

B: Assembly Option

0 1	Not Assembled
0 2	Assembled

C: Protection Option

0 0	No Surge Protection
0 1	Surge Protection Provided

3300/03 to Bently Nevada host (TDM2) computer; RS422

{9-pin female to 9-pin male}

103629 - AXXXX-BXX-CXX-DXX**A: Cable Length**

0 0 1 0	10 feet (3 metres)
0 0 2 5	25 feet (7.5 metres)
0 0 5 0	50 feet (15 metres)
0 1 0 0	100 feet (30 metres)
0 2 5 0	250 feet (76 metres)
0 5 0 0	500 feet (152 metres)

B: Assembly Option

0 1	Not Assembled
0 2	Assembled

C: Insulation Option

0 1	PVC Insulated
0 2	Teflon® Insulated

D: Protection Option

0 0	No Surge Protection
0 1	Surge Protection provided

Surge Protector Kit

(for existing installations, not required when surge protection option is specified with new cables).

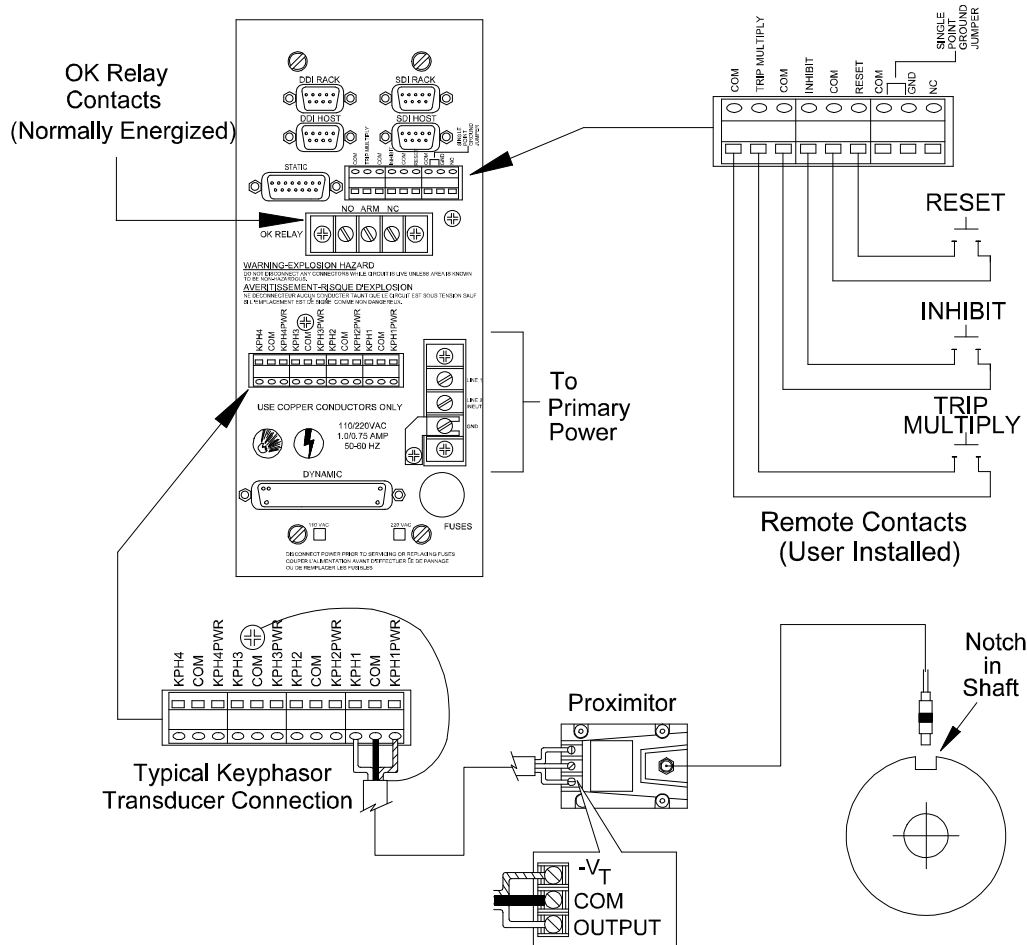
109959-AXX**(Note:** Each communication cable requires one device at each end of the cable).**A: Surge Protector Kit**

0 1	TDM Comm Processor end of cables 81650 and 78205
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02	Host Computer end of TDM cable 78205; both Host and Comm Processor end of DDI cable 89950; Comm Processor end of DDI cable 89949.	07	ost Computer end of cables 132632 and 132633 (DM2000 Host to First Comm Processor)
03	Host Computer end of TDM cable 81650 and DDI cable 89949.	08	llen-Bradley Communications Module end of cable 89969 (3300/03 to Allen-Bradley 1771-KE).
04	Comm Processor end of cable 78206 (TDM Host to First Comm Processor), 103629 (TDM2 Host to first Comm Processor) and 132632 or 132633 (DM2000 Host to First Comm Processor); both ends of cable 47125 (DDM/PDM/ TDM Comm Processor to Comm Processor); 3300/03 rack end of cables 89966, 89967, and 89970.	09	300/03 rack end of cables 89968 (3300/03 to Allen-Bradley 1770-KF2) and 89969 (3300/03 to Allen-Bradley 1771-KE).10 3300/01 rack end of cables 89966 (3300/03 to 3300/01) and, 89967 (3300/03 to 3300/01) and on AB Comm Module end of cable 89970 (3300/03 to Allen-Bradley Comm Module).
05	Host Computer end of cable 78206 (TDM Host to First Comm Processor).	11	Allen-Bradley Communication Module end of cable 89968 (3300/03 to Allen-Bradley 1770-KF2).
06	Host Computer end of cable 103629 (TDM2 Host to first Comm Processor).		

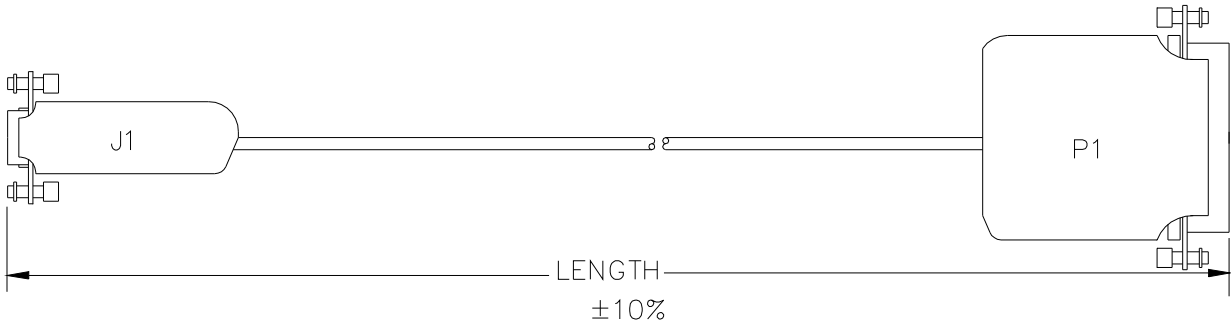
Field wiring diagrams

3300/03 System Monitor



Field wiring diagram for 3300/03 System Monitor
(ac Power Supply without internal barriers)

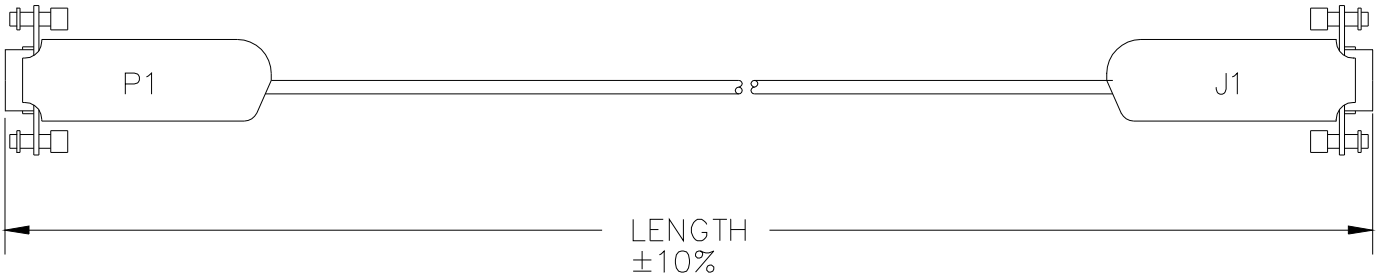
9-pin female RS422 Rack to 25-pin female RS422 cable



FROM	TO	FROM	TO
P1-1	SHIELD	P1-6	J1-6
P1-2	J1-3	P1-7	J1-5
P1-3	J1-2	P1-8	J1-9
P1-4	J1-7	P1-20	J1-4
P1-5	J1-8		

J1 is 3300/03 System Monitor
P1 is Modem

Figure 9: Part Number 100058
25-pin male modem cable to 9-pin female cable



FROM (MALE)	TO (FEMALE)
P1-1	SHIELD
P1-2	J1-4
P1-3	J1-3
P1-6	J1-6
P1-7	J1-9
SHIELD	J1-1

Figure 10: Part Number 103629
9-pin male (P1) RS422 TDM2 Host cable to 9-pin female (J1-3300/03) RS422 Rack cable