

3300/01-01-00

3300/01 Basic System Monitor

Bently Nevada 3300/01-01-00 is the basic System Monitor for an original 3300 machinery-protection rack. It supervises rack supplies and common control functions while distributing Keyphasor references to the installed monitors.

PRODUCT SNAPSHOT

BRAND

Bently Nevada

FAMILY

3300 Machinery Protection System

PART

3300/01

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PRODUCT OVERVIEW

Bently Nevada 3300/01-01-00 is the basic System Monitor for an original 3300 machinery-protection rack. It supervises rack supplies and common control functions while distributing Keyphasor references to the installed monitors.

1

Supervises power and common status functions for the original 3300 rack

2

Provides front-panel reset, trip-multiply and alarm-setpoint interaction

3

Buffers two Keyphasor references for distribution to installed monitor channels

4

Drives the rack OK relay from the combined condition of monitored system supplies

SYSTEM COMPONENTS

original 3300 rack backplane

3300/10, 3300/11 or compatible power supply

standard Power Input Module

installed 3300 monitor modules

RELATED PRODUCTS ON APTER POWER

MODEL	SYSTEM ROLE	APTER POWER PAGE
3500/40M 176449-01	Four-channel Proximitor monitor	Open product page
3500/20 125744-02	Rack interface module	Open product page
3500/45 176449-04	Four-channel position monitor	Open product page
330130-045-00-00	3300 XL extension cable	Open product page

TECHNICAL DATA

PARAMETER	VALUE
System monitor execution	3300/01-01
Serial interface	Not fitted
Keyphasor inputs	2
Power-up inhibit delay	2 +/- 1 s
+VRH rail	22.55 +/- 6.05 V DC
+VRL rail	11.22 +/- 3.09 V DC
+7.5 V rail	7.5 +/- 0.1 V DC
+5 V rail	5.00 +/- 0.05 V DC
+5 V reference	5.00 +/- 0.009 V DC

PARAMETER	VALUE
-7.5 V rail	-7.5 +/- 0.1 V DC
-VT, 24 V option	-23.75 +/- 0.45 V DC
-VT, 18 V option	-17.9 +/- 0.4 V DC
Keyphasor output, 24 V option	-23.2 to -24.2 V DC
Keyphasor output, 18 V option	-17.4 to -18.3 V DC
Keyphasor output protection	Short-circuit protected
Operating temperature	0 to +65 degC
Storage temperature	-40 to +85 degC
Relative humidity	95% non-condensing

TECHNICAL NOTE

Match the -VT jumper to the installed 18 V or 24 V transducer supply before engaging 3300/01-01-00 in the rack. After replacement, verify Supplies OK, OK relay, Keyphasor buffering, Reset and Trip Multiply with the machine protection outputs controlled.

APPLICATIONS & PRECAUTIONS

COMMON APPLICATIONS

Original 3300 rack supervision

Supervises power and common status functions for the original 3300 rack

Keyphasor reference distribution

Provides front-panel reset, trip-multiply and alarm-setpoint interaction

Rack-wide alarm inhibit and reset

Buffers two Keyphasor references for distribution to installed monitor channels

Machine protection panel maintenance

Drives the rack OK relay from the combined condition of monitored system supplies

PRODUCT PRECAUTIONS

- 1 Verify the complete 3300/01-01-00 marking and original 3300 rack configuration before work.
- 2 Place connected shutdown and alarm circuits in the approved maintenance state.
- 3 Isolate rack power before disengaging the System Monitor from the backplane.
- 4 Record the -VT selection and match it to the installed rack power-supply execution.
- 5 Use ESD controls and protect the backplane, front-panel and Keyphasor connectors.
- 6 Do not substitute the serial-interface 3300/01-02 execution without a compatibility review.
- 7 Verify the two Keyphasor paths and combined Supplies OK indication after installation.
- 8 Prove Reset, Trip Multiply, alarm-setpoint adjustment and OK relay action before release.

ENGINEER FAQ

Q1 What rack configuration is compatible with 3300/01-01-00?

Use it in an original 3300 system with the corresponding original backplane, power supply and Power Input Module arrangement documented for the rack.

Q2 Does 3300/01-01-00 include the serial communications interface?

No. The 3300/01-01 execution is the basic System Monitor; the 3300/01-02 execution is the variant with the serial-interface assembly.

Q3 How should the -VT jumper be set on 3300/01-01-00?

Set the jumper to the 18 V or 24 V transducer-supply selection used by the installed rack power supply before engaging the module.

Q4 What happens during power-up of 3300/01-01-00?

The System Monitor applies a rack-wide alarm inhibit for approximately two seconds while the system supplies stabilize.

Q5 How many Keyphasor paths does 3300/01-01-00 handle?

It receives two Keyphasor inputs at the Power Input Module and buffers them for the installed monitor channels and front-panel outputs.

Q6 What should be recorded before replacing 3300/01-01-00?

Record the rack generation, power-supply type, Power Input Module, -VT selection, OK-relay wiring and the use of Reset and Trip Multiply contacts.

Q7 How is a replacement 3300/01-01-00 commissioned?

Check the supply rails, Supplies OK indication, OK relay, both Keyphasor outputs, Reset and Trip Multiply before restoring the protection circuits.

Q8 Can 3300/01-01-00 be replaced directly by 3300/03?

Only after an engineered compatibility review of the backplane, power supply, Power Input Module, communications hardware and monitor firmware.