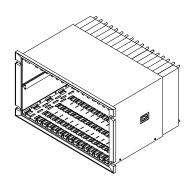
3500/05 System Rack

Bently Nevada* Asset Condition Monitoring



Description

The 3500 System rack design holds all 3500 monitor modules and rack power supplies. It allows the various 3500 modules to communicate with one another and the power supplies to distribute power to each module as required.

3500 Racks are available in two sizes:

- 1. Full-size Rack 19-inch EIA rack with 14 available module slots
- 2. Mini-Rack 12-inch rack with 7 available module slots

3500 racks are available in three formats:

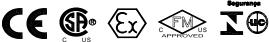
- 1. **Panel mount -** This rack format is mounts to rectangular cut-outs in panels, and secures to the panel using clamps supplied with the rack. Wiring connections and I/O modules are accessible from the rear of the rack.
- Rack mount This rack format is mounts the 3500 rack on 19-inch EIA rails. Wiring connections and I/O modules are accessible from the rear of the rack.
- 3. **Bulkhead mount** This rack format mounts the rack against a wall or panel when it is not possible to access the rear of the rack. Wiring connections and I/O modules are accessible from the front of the rack. The 3500/05 Mini-Rack is not available in this format.

The Power Supplies and Rack Interface Module must occupy the far left rack positions. The remaining 14 rack positions (7 rack positions for the Mini-Rack) are available for any combination of modules. If you plan to install internal barriers in the 3500 rack, consult our document part number 141495-01, Specifications and Ordering Information for 3500 Internal Barriers.













Specifications

Hazardous Area Approvals CSA/C/US

ATEX

Brazil

Refer to the data sheet of applicable monitor being inserted into the rack.

CE Mark Directives

BN 136669

Bently Nevada Low Voltage

Directive

BN 134036

Bently Nevada EMC Directive

EN61000-6-4

Radiated Emissions

EN 55011, Class A

Conducted Emissions

EN 55011, Class A

EN61000-6-2

Electrostatic Discharge

EN 61000-4-2, Criteria B

Radiated RFI

EN61000-4-3, Criteria A

Conducted Susceptibility

EN61000-4-3, Criteria A

Electrical Fast Transient

EN 61000-4-4, Criteria B

Surge Capability

EN 61000-4-5, Criteria B

Magnetic Field

EN 61000-4-8, Criteria A

Power Supply Dip

EN 61000-4-11, Criteria B

Radio Frequency

EN61000-4-6, Criteria A

Ordering Considerations

- Racks with Internal Barriers installed require a 3500/04-01 Internal Barrier Earthing Module to provide the IS Earth connection to the 3500/05 rack. This earthing module requires a dedicated rack position.
- The 3500/93 System Display A01 System Face Mount option is incompatible with the 3500/05 Mini-rack.
- The 3500/05 Mini-rack is not available in the Bulkhead mount option.
- The 3500/06 Weatherproof housing is not compatible with the 3500/05 Bulkhead Mount option.
- When using a 3500 Mini-rack in an EIA rack, a 144863-01 19-inch EIA Adapter Panel is required.
- The 3500 Mini-rack requires Version 2.70 or later of the 3500/01 Software.

Ordering Information

Rack Ordering Information 3500/05-AXX-BXX-CXX-DXX-EXX

A: Rack Size

19-inch Rack (14 module slots)12-inch Mini-Rack (7 module

slots)

B: Mounting Options

0 1 Panel Mount Option, Full-Size Rack

0 2 Rack Mount Option, Full-Size Rack (mounts to19-inch EIA Rack)

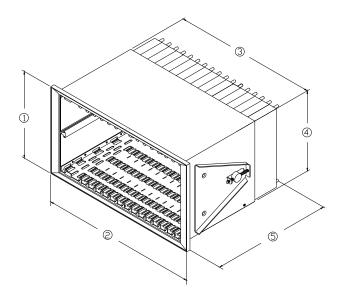
0 3 Bulkhead Mount Option (not available in Mini-Rack)

04 Panel Mount Option, Mini-Rack

05 Rack Mount Option, Mini-Rack

C: Agency Appro	val Option 00 None 01 CSA - C - US 02 ATEX/CSA	Full-height Blank Monitor Cover Kit	Order as 130768-01 which
	00 None appliance Option 00 None 01 CE	130944-01	includes Full-height Monitor Blank Front Panel (Qty 1)
Spares		128031-01	
Part Number Half-height	Description	04310251	I/O Module Cover (Qty 1)
Module Adapter 125388-01	Order the following	Half-height Blank Monitor Covor Kit	Screw for I/O Module Cover (Qty 2)
125565-01	Half-height Module Internal Chassis (Qty 1)	131151-01	Order the Following
04300111	Half-height Module Card Guide (Qty 1)	Misc	Half-height Blank Front Panel Cover (Qty 1)
	Screws for Half-height Module Internal Chassis (Qty 3)	Components 00561941	
Power Supply Blank Cover Kit			TMR/SIM jumper (installed on the 3500 backplane)
171150 01	Order the following	144863-01	
131150-01	Power Supply Blank Front Panel (Qty 1)	129766-01	Adapter Panel, Mini-rack, 19-inch
128085-01			Rack Installation and Maintenance Manual
	Power Supply Input Connector Cover (Qty 1)	130432-01	Field Wiring Diagrams
04310251	Screw for Power Supply Input Cover (Qty 2)		

Figures and Tables



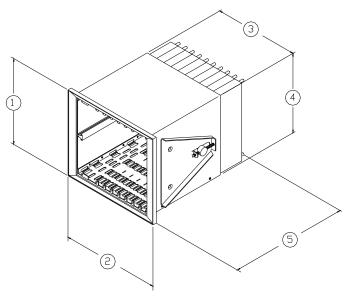
- 1. 265.94 mm (10.470 in.)
- 2. 482.60 mm (19.000 in.)
- 3. 441.96 mm (17.400 in.)
- 4. 246.38 mm (9.700 in.)
- 5. 349.25 mm (13.750 in.), 422.91 mm (16.650 inches) if used with internal barriers

3500 Full-Size rack mounting dimensions for the Rack and Panel Mount Configuration



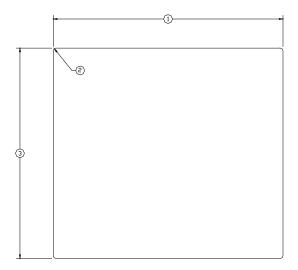
- 1. 452.1 +/- 1.5 mm (17.80 +/- 0.06 in.)
- 2. 3.2 mm (0.125 in.) radius, maximum
- 3. 251.5 +/- 1.5 mm (9.90 +/- 0.60 in.)

3500 Full-Size Rack Recommended Panel Cutout



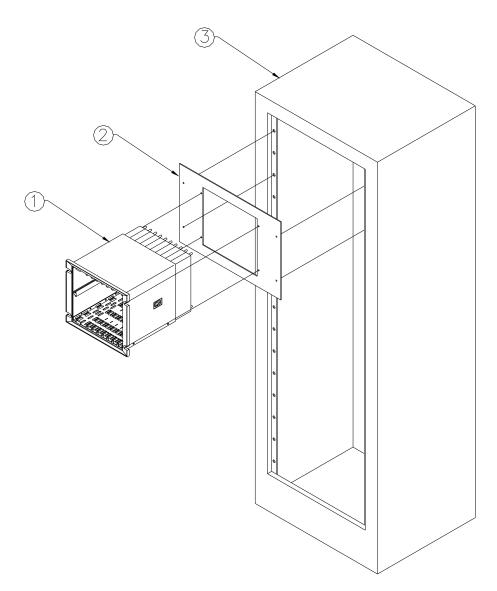
- 1. 10.470 inches (265.94 mm).
- 2. 12.000 inches (304.80 mm).
- 3. 10.400 inches (264.16 mm).
- 4. 9.700 inches (246.38 mm).
- 5. 13.750 inches (349.25 mm), 16.650 inches (422.91 mm) if used with internal barriers

3500 Mini-rack mounting dimensions for the Panel Mount Configuration



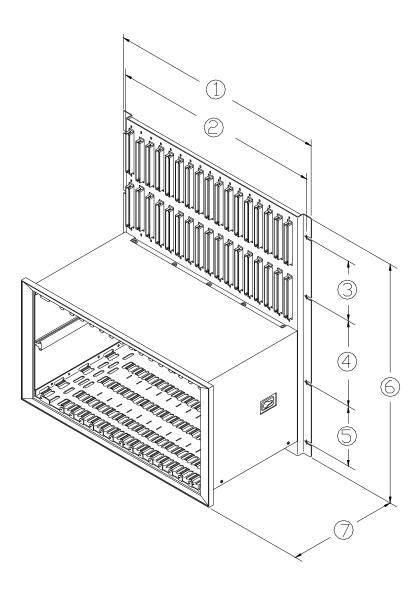
- 1. 274.3 +/- 1.5 mm (10.80 +/- 0.06 in.)
- 2. 3.2 mm (0.125 in.) radius, maximum.
- 3. 251.5 +/- 1.5 mm (9.90 +/- 0.60 in)

3500 Mini-rack Recommended Panel Cutout



- 1. 3500 Mini-rack
- 2. Adapter Panel
- 3. Standard 19-inch EIA rack

3500 Mini-rack and Adapter Panel mounting to a 19-inch EIA Rack



- 1. 482.60 mm (19.000 inches)
- 2. 459.59 mm (18.094 inches)
- 3. 133.35 mm (5.250 inches)
- 4. 190.50 mm (7.500 inches)
- 5. 133.35 mm (5.250 inches)
- 6. 532.64 mm (20.970 inches)
- 7. 266.70 mm (10.500 inches)

Dimensions of a Bulkhead Mount 3500 rack

* Denotes trademarks of Bently Nevada, Inc., a wholly owned subsidiary of General Electric Company.

© 1999 – 2010 Bently Nevada, Inc. All rights reserved.

1631 Bently Parkway South, Minden, Nevada USA 89423 Phone: 775.782.3611 Fax: 775.215.2873 www.ge-energy.com/bently