

# 3500 Software

## Bently Nevada™ Asset Condition Monitoring

---

### Description

Three software packages are available for use with the 3500 Machinery Protection System. These are

1. **Rack Configuration Software.** This package configures all 3500 modules.
2. **Data Acquisition/DDE Server.** This package collects and archives static data from the 3500 System. The DDE Server provides data exporting capabilities for integration with 3<sup>rd</sup> party software such as plant historians, process control systems, and human machine interfaces.
3. **Operator Display.** This package displays information collected by the 3500 Data Acquisition software.

All 3500 software is Microsoft® Windows® based and can operate across a network using Windows® 2003 Server or Windows® XP Professional operating systems.

**Note:** *The primary role of the 3500 Data Acquisition and Operator Display software is as an emulation package to display the data normally found on the front-panel display of a machinery protection system. The software also provides basic trending and event archiving functions. It does not provide the dynamic data capture and plot capabilities required for machinery diagnostics or for connection to a Bently Nevada™ Decision Support™ system.*



---

## Specifications

### Computer Requirements:

#### Rack Configuration Computer:

Intel® Pentium® processor or better

800x600 (SVGA ) or higher resolution Monitor

CD-ROM drive

128 Megabytes of RAM recommended

Microsoft Windows XP Professional or Windows 2003 Server operating system

Minimum 35 Megabytes of available hard disk space

RS232 Serial Port ,USB port with USB to Serial Adapter, Modem, or Network access to 3500 racks

#### Data Acquisition/DDE Server Computer:

Intel Pentium processor or better

800x600 (SVGA ) or higher resolution Monitor

CD-ROM drive

Microsoft Windows XP Professional or Windows 2003 Server operating system

128 Megabytes of RAM recommended

Minimum 35 Megabytes of available hard disk space

Serial Port or RS232 Asynchronous communications card or RS485 communications card, or Network access to 3500 Racks.

#### Operator Display Computer:

Intel Pentium processor or better

800x600 (SVGA) or higher resolution Monitor

CD-ROM drive

Microsoft Windows XP Professional or Windows 2003 Server operating system

128 Megabytes of RAM recommended

Minimum 35 Megabytes of available hard disk space

**Note:** Contact your Bently Nevada Sales Professional for current computer availability and part numbers. Any one of our System 1® computer offerings is adequate for 3500 Software.

---

## Ordering Information

### Rack Configuration Software and Configuration Manual 3500/01-01

---

### Data Acquisition/DDE Server Software 3500/02-01

---

### Operator Display Software and Software Manual 3500/03-01

---

### 3500 Rack Configuration Software Support plans 3500/18-A-XX

---

### 3500 DAQ & Display Software Support Plans 3500/19-A-XX

A: Support type and duration

- |           |                                     |
|-----------|-------------------------------------|
| <b>01</b> | 1-year Single Software Support plan |
| <b>02</b> | 1-year Multi-Software Support plan  |
| <b>03</b> | 2-year Single Software Support plan |
| <b>04</b> | 2-year Multi-Software Support plan  |
| <b>05</b> | 3-year Single Software Support plan |
| <b>06</b> | 3-year Multi-Software Support plan  |
| <b>07</b> | 4-year Single Software Support plan |

- 08 4-year Multi-Software Support plan
  - 09 5-year Single Software Support plan
  - 10 5-year Multi-Software Support plan
- Ex. 1-year Multi-Software Support plan for 3500 Rack Config: 3500/18-02

---

**Accessories**

**02290860**

RS232 Modem cable from 3500 Rack to External Modem or Host Computer to External Modem

**130119-01**

Host Computer to RS232/RS422 Converter Cable RS232

**129386-01**

TDIX - Static Data Cable

**129387-01**

DDIX - Static Data Cable

**02290160**

DDIX/TDIX - Dynamic Data Cable

**02230411**

RS232 to RS422 Converter 110 VAC

**02230412**

RS232 to RS422 Converter 220 VAC

**164715**

RS232/422/485 w/16950 UART 64 bit PCI Slot communications card

**167344**

USB Serial Parallel Adapter for IBM® ThinkPad® computers

---

**Host Computer to 3500 Rack Cable, RS232**

**130118 -AXXXX-BXX**

A: Cable Length

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

- 0100 100 feet (30.5 metres)
- B: Assembly Instructions**
- 01 Not Assembled
  - 02 Assembled

---

**RS232/RS422 Converter to 3500 Rack Cable, RS422, PVC Insulated**

**130120 -AXXXX-BXX**

A: Cable Length

- 0010 10 feet (3 metres)
- 0025 25 feet (7.5 metres)
- 0050 50 feet (15 metres)
- 0100 100 feet (30.5 metres)
- 0250 250 feet (76 metres)
- 0500 500 feet (152 metres)

**B: Assembly Instructions**

- 01 Not Assembled
- 02 Assembled

---

**Host Computer to 3500 Rack Cable, RS422, PVC Insulated**

**132632 -AXXXX-BXX**

A: Cable Length

- 0010 10 feet (3 metres)
- 0025 25 feet (7.5 metres)
- 0050 50 feet (15 metres)
- 0100 100 feet (30.5 metres)
- 0250 250 feet (76 metres)
- 0500 500 feet (152 metres)

**B: Assembly Instructions**

- 01 Not Assembled
- 02 Assembled

---

**Host Computer to 3500 Rack Cable, RS422, Teflon® Insulated**

**132633 -AXXXX-BXX**

A: Cable Length

- 0010 10 feet (3 metres)
- 0025 25 feet (7.5 metres)
- 0050 50 feet (15 metres)
- 0100 100 feet (30.5 metres)
- 0250 250 feet (76 metres)
- 0500 500 feet (152 metres)

**B: Assembly Instructions**

- 01 Not Assembled
- 02 Assembled

---

**3500 Rack to 3500 Rack Cable, RS422, PVC Insulated**

**130122 -AXXXX-BXX**

A: Cable Length

- 0010 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 (30.5 metres)  
**0 2 5 0** 250 feet (76 metres)  
**0 5 0 0** 500 feet (152 metres)

**B: Assembly Instructions**

**0 1** Not Assembled  
**0 2** Assembled

---

**3500 Rack to 3500 Rack Cable, RS422, Teflon® Insulated**

**131107 -AXXX-BXX**

**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 (30.5 metres)  
**0 2 5 0** 250 feet (76 metres)

**0 5 0 0** 500 feet (152 metres)

**B: Assembly Instructions**

**0 1** Not Assembled  
**0 2** Assembled

---

**500 Feet (152 metres) Extension Cable, RS422 (Used with Cables 130120, 131106, 130122, and 131107 for lengths greater than 500 feet (152 metres)).**

**130121 -AXXX-BXX**

**A: Assembly Instructions**

**0 1** Not Assembled  
**0 2** Assembled

**B: Insulation**

**0 1** PVC Insulated  
**0 2** Teflon® Insulate

Copyright 1999. Bently Nevada, LLC.  
 1631 Bently Parkway South, Minden, Nevada USA 89423  
 Phone: 775.782.3611 Fax: 775.215.2873

[www.ge-energy.com/bently](http://www.ge-energy.com/bently)

All rights reserved.

Bently Nevada and Decision Support are trademarks of General Electric company.

Teflon is a trademark of DuPont

Intel and Pentium are trademarks of Intel Corporation

IBM and ThinkPad are trademarks of IBM Corporation.

Microsoft and Windows are trademarks of Microsoft Corporation In the United States and other countries.