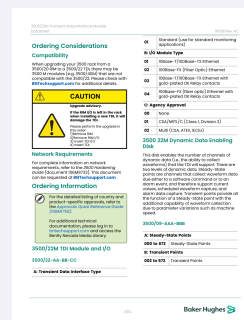


FIELD INSTALLATION QUICK GUIDE

Installation Instructions

146031-01

Copper Ethernet I/O module



PRODUCT	146031-01
FAMILY	Bently Nevada 3500/22M TDI system
FUNCTION	Copper Ethernet I/O module
STATUS	Verify exact installed equipment

Prepared by Amikon Limited from 3500 System documentation. This guide supplements the complete manufacturer manual and site procedure.

01

CONFIRM THE ORDERED CONFIGURATION

I/O Module Variant	10Base-T/100Base-TX copper Ethernet
Associated TDI	3500/22M Transient Data Interface
Network Connector	RJ-45 shielded copper interface
Ethernet Standards	IEEE 802.3 compliant operation
Supported Data Rates	10 or 100 Mbit/s autosensing
Communication Protocols	BN Host and BN TDI protocols

02

PREPARATION AND CONNECTION

- Confirm the complete 146031-01 article number and installed revision.
- Isolate applicable electrical and process energy using the approved site procedure.
- Record every connector, cable, terminal, shield and protective-earth connection before removal.
- Install without forcing keyed parts, then secure terminals, latches, fasteners and cable supports.

OFFICIAL INSTALLATION REFERENCE

3500/22M Transient Data Interface Module
Datasheet

161581 Rev. AC

Ordering Considerations

Compatibility

When upgrading your 3500 rack from a 3500/20 RIM to a 3500/22 TDI, there may be 3500 M modules (e.g. 3500/40M) that are not compatible with the 3500/22. Please check with BNTechsupport.com for additional details.

CAUTION

Upgrade advisory.

If the RIM I/O is left in the rack when installing a new TDI, it will damage the TDI.

Please perform the upgrade in this order:

- 1) Remove RIM
- 2) Remove RIM I/O
- 3) Insert TDI I/O
- 4) Insert TDI

Network Requirements

For complete information on network requirements, refer to the *3500 Hardening Guide* [document 106M9733]. This document can be requested at BNTechsupport.com.

Ordering Information

For the detailed listing of country and product-specific approvals, refer to the [Approvals Quick Reference Guide \(108M1756\)](#).

For additional technical documentation, please log in to bntechsupport.com and access the Bently Nevada Media Library.

3500/22M TDI Module and I/O

3500/22-AA-BB-CC

A: Transient Data Interface Type

01	Standard (use for standard monitoring applications)
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B: I/O Module Type

01	10Base-T/100Base-TX Ethernet
02	100Base-FX (Fiber Optic) Ethernet
03	10Base-T/100Base-TX Ethernet with gold-plated OK Relay contacts
04	100Base-FX (fiber optic) Ethernet with gold-plated OK Relay contacts

C: Agency Approval

00	None
01	CSA/NRTL/C (Class 1, Division 2)
02	Multi (CSA, ATEX, IECEx)

3500 22M Dynamic Data Enabling Disk

This disk enables the number of channels of dynamic data (i.e., the ability to collect waveforms) that the TDI will support. There are two levels of dynamic data. Steady-State points are channels that collect waveform data due either to a software command or to an alarm event, and therefore support current values, scheduled waveform capture, and alarm data capture. Transient points provide all the function of a Steady-State point with the additional capability of waveform collection due to parameter variations such as machine speed.

3500/09-AAA-BBB

A: Steady-State Points

000 to 672	Steady-State Points
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B: Transient Points

002 to 672	Transient Points
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04 COMMISSIONING CHECKS

- 01 Confirm product identity and mechanical seating.
- 02 Verify the documented supply before energising.
- 03 Inspect polarity, shielding and protective-earth connections.
- 04 Restore power in the approved sequence and observe status indications.
- 05 Test each connected input, output or communication path.
- 06 Record diagnostics and functional-test results before return to service.

05 CONTROLLED DOCUMENT

Official source	Bently Nevada 3500/22M Transient Data Interface Module Datasheet 161581 Rev AC
Product record	146031-01
Manufacturer	3500 System
Warranty	12 months from AMIKON
Support	INFO@AMIKON.CN

AMIKON PRODUCT SUPPORT

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