

Bently Nevada 3500 Series Service Manual

3500/92-04-01-01

1. Description

Manufacturer : Bently Nevada

3. Product Information

Manufacturer : Bently Nevada

Product No. : 3500/92-04-01-01

Product Type : The 3500/92 Communication Gateway

Made in U.S.A

I/O Module Type : 04 = Ethernet/RS485 Modbus I/O Module

Memory Type : 01 = Low Memory

Agency Approval Option : 01 = CSA/NRTL/C

Main Board : Dimensions = 241 mm x 24.4 mm x 242 mm

Weight : 1.26 Kg

Inputs

Power Consumption 5.0 Watts typical with

ModbusRS232/ RS422

I/O Module

5.6 Watts typical with

Modbus RS485 I/O

Module

Data Types Collects data from

other modules in the

rack, such as current

measured values with

time stamp, module

statuses, and current

alarm statuses, via a

high speed internal

network.

Exact data types

returned depend on

module type and

channel configuration.

Update Time: The data

collection rate

depends on rack

configuration but will

not exceed 1 second for

all modules in the 3500

rack.

Outputs

OK LED Indicates when the

3500/92 is operating

properly.

TX/RX LED Indicates when the

3500/92 is

communicating with

other modules in the

3500 rack.

Protocols

BNC Host Protocol Communication with

3500 Configuration

Software and 3500

Data Acquisition and

Display Software over

Ethernet TCP/IP.

Modbus Based on AEG Modicon

PI-MBUS-300

Reference Manual.

Uses Remote Terminal

Unit (RTU) transmission

mode.

Ethernet

Communication Link Ethernet, 10Mbps, and conforms to IEEE802.3

Protocol Ethernet TCP/IP frame and Modbus/TCP

Connection RJ-45 (telephone jack style) for 10BASE-T

Ethernet cabling

Environmental Limits

Main and I/O Module

Operating

Temperature

-30°C to +65°C

(-22°F to +149°F)

Storage

Temperature

-40°C to +85°C

(-40°F to +185°F)

Humidity 95%, non-condensing

Main Board

Dimensions

(Height x Width x

Depth)

241 mm x 24.4 mm x

242 mm

(9.50 in x 0.96 in x 9.52

in)

Weight 0.82 kg (1.8 lb.)

Rack Space Requirements

Monitor Module 1 full-height front slot

Compliance and Certifications

FCC

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

I This device may not cause harmful interference.

I This device must accept any interference received, including interference that may cause undesired operation.

EMC

European Community Directive:

EMC Directive 2014/30/EU

Standards:

EN 61000-6-2; Immunity for

Industrial Environments

EN 61000-6-4; Emissions for

Industrial Environments

Electrical Safety

European Community Directive:

LV Directive 2014/35/EU

Standards:

EN 61010-1

RoHS

European Community Directive:

RoHS Directive 2011/65/EU

Maritime

DNV GL rules for classification – Ships, offshore units, and high speed and light

craft

ABS Rules for Condition of Classification,

Part 1

I Steel Vessels Rules

I Offshore Units and Structures

