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:
l This device may not cause harmful
interference.
l 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