

Installation Identity and Scope

PE1364B is a ModulBus/DDCS to Modbus TCP converter for ABB AC80 and AC4xx control-system communication. It connects the documented DDCS fiber interface to an Ethernet Modbus TCP network.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PE1364B
Manufacturer	ABB
Hardware role	DDCS-Modbus TCP Converter
System family	ABB AC80/AC4xx

Controlled engineering copy

Record the complete PE1364B identity, firmware, fiber type, node arrangement, IP settings and Modbus register map before replacement or recommissioning.

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Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete PE1364B marking and firmware before work.
2	Back up the IP address, register map and Modbus client configuration.
3	Identify whether the installed fiber is POF or HCS and record the terminal arrangement.
4	Do not exceed the documented fiber length for the installed interface units.
5	Use ESD controls and protect fiber ends from contamination and bending.
6	Establish the DDCS communication before expecting a Modbus TCP response.
7	Confirm the 24 VDC supply is within the documented range before energization.
8	Verify Ethernet, DDCS and mapped data quality before release.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete PE1364B marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Related Products

MODEL	APTER POWER PAGE
ABB RB4C-355/170 3AXD50000006934	View ABB RB4C-355/170 3AXD50000006934
ABB 3HAC044361-003	View ABB 3HAC044361-003
ABB IEMMU21	View ABB IEMMU21

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Document revision	PE1364B/V11
Document date	2010-04-12
Firmware reference	Program version 20
Supply voltage	24 VDC; 12-30 VDC range
Current at 24 VDC	170 mA
Enclosure rating	IP00
Operating temperature	+5 to +40 deg C
Storage temperature	-40 to +70 deg C

Configuration boundary

Record the complete PE1364B identity, firmware, fiber type, node arrangement, IP settings and Modbus register map before replacement or recommissioning.

Expected Technical Values

PARAMETER	VALUE
DDCS speed	4 Mbit/s
DDCS media	1.0 mm POF or 200 micrometre HCS fiber
HCS fiber length	Up to 200 m with TB810
POF fiber length	Up to 15 m with TB810/TB811

Additional Official Data

PARAMETER	VALUE
Ethernet connector	RJ45
Default IP address	192.168.1.20
Modbus function	Holding register read, point type 03

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete PE1364B marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING ANSWER
What is PE1364B?	PE1364B is a ModulBus/DDCS to Modbus TCP converter used with ABB AC80 and AC4xx communication.
What supply does PE1364B use?	The documented supply is 24 VDC with an allowed range of 12 to 30 VDC.

Related Products

MODEL	APTER POWER PAGE
ABB IEMMU21	View ABB IEMMU21
ABB ACS-CP-C	View ABB ACS-CP-C
ABB IPSYS01	View ABB IPSYS01
ABB IPMON01	View ABB IPMON01
ABB IEPEP03	View ABB IEPEP03

Source, Related Products and Release

MODEL	APTER POWER PAGE
ABB IEPAS02	View ABB IEPAS02
ABB NTST01	View ABB NTST01
ABB NTMP01	View ABB NTMP01
ABB RB4C-355/170 3AXD50000006934	View ABB RB4C-355/170 3AXD50000006934
ABB 3HAC044361-003	View ABB 3HAC044361-003

MANUFACTURER SOURCE RECORDS

1. ProcessElektronik PE1364B/V11 User Manual
2. ProcessElektronik PE1364B Program Version 20 Record

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PE1364B recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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