

PE1364B

DDCS-Modbus TCP Converter

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.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
Complete model	PE1364B
Product role	DDCS-Modbus TCP Converter
System family	ABB AC80/AC4xx

MANUFACTURER SOURCE RECORDS

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

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PE1364B

Product Overview

System function

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.

DDCS conversion

Bridges the documented ABB DDCS/ModulBus fiber connection to Modbus TCP.

Dual fiber support

Supports the documented POF or HCS fiber arrangements.

Ethernet access

Provides the RJ45 Modbus TCP interface and configurable IP communication.

AC80/AC4xx integration

Provides the documented communication path for the associated ABB controllers.

Technical note

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

Technical Data and Acceptance

PARAMETER	VERIFIED VALUE	PARAMETER	VERIFIED VALUE
Product identity	PE1364B	Storage temperature	-40 to +70 deg C
Product type	ModulBus (DDCS) to Modbus TCP converter	DDCS speed	4 Mbit/s
Document revision	PE1364B/V11	DDCS media	1.0 mm POF or 200 micrometre HCS fiber
Document date	2010-04-12	HCS fiber length	Up to 200 m with TB810
Firmware reference	Program version 20	POF fiber length	Up to 15 m with TB810/TB811
Supply voltage	24 VDC; 12-30 VDC range	Ethernet connector	RJ45
Current at 24 VDC	170 mA	Default IP address	192.168.1.20
Enclosure rating	IP00	Modbus function	Holding register read, point type 03
Operating temperature	+5 to +40 deg C		

Engineering boundary

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

Applications and Engineering FAQ

APPLICATION	ENGINEERING CONTEXT
AC80/AC4xx data exchange	Exposes documented controller data through Modbus TCP.
DDCS fiber network conversion	Connects a compatible ABB fiber network to Ethernet.
Legacy control-system integration	Allows a documented Modbus TCP client to access the supported register map.
Controlled gateway replacement	Restores an exact PE1364B with retained fiber, IP and register settings.

Model-Specific FAQ - Part 1

QUESTION	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 IPSYS01	View ABB IPSYS01
ABB IPMON01	View ABB IPMON01
ABB IEPEP03	View ABB IEPEP03
ABB IEPAS02	View ABB IEPAS02
ABB NTST01	View ABB NTST01

FAQ, Related Products and Sources

QUESTION	ANSWER
Which fiber media does PE1364B support?	It supports 1.0 mm plastic optical fiber or 200 micrometre HCS fiber.
What is the PE1364B DDCS speed?	The documented fiber communication speed is 4 Mbit/s.
Which Ethernet connection does PE1364B provide?	It provides an RJ45 Modbus TCP connection.
What is the PE1364B default IP address?	The documented default address is 192.168.1.20.
Why might PE1364B not answer Modbus TCP?	The manufacturer manual states that DDCS communication must be running first.
What confirms PE1364B commissioning?	The supply, fiber link, Ethernet link, IP settings and required holding-register data must all be verified.

MODEL	APTER POWER PAGE
ABB NTMP01	View ABB NTMP01
ABB RB4C-355/170 3AXD50000006934	View ABB RB4C-355/170 3AXD50000006934
ABB 3HAC044361-003	View ABB 3HAC044361-003
ABB IEMMU21	View ABB IEMMU21
ABB ACS-CP-C	View ABB ACS-CP-C

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