

AMIKON TECHNICAL DOCUMENTATION

Installation Instructions

ABB NWPM-01

Modbus Drive Adapter Module

PROTOCOL	NETWORK	DRIVE LINK	SUPPLY
Modbus RTU	RS-485	Optical DDCS	24 V DC

01

SAFETY AND PREPARATION

Only qualified electricians may install or maintain the drive and adapter. Isolate the mains, wait at least five minutes for intermediate-circuit discharge, and verify the drive is discharged. Motor terminals remain dangerous with the motor stopped. External control circuits can remain live after mains isolation.

Follow the safety instructions for the specific drive and the NWPM-01 manual before any work. This concise guide does not replace controlled ABB instructions or site isolation procedures.

02

MOUNTING AND CONNECTIONS

Install on an earthed standard rail with the required clearance and operating conditions. Enable termination only at a bus end, protect the optical cables and follow the drive-specific isolation procedure before installation or service.

Use the documented screened supply and bus cables. Keep bus conductors away from motor cables. Follow the terminal drawing in the original manual; protective earth, cable shields and data ground have different functions. Connect the optical DDCS link according to the drive type.

Official basis: NWPM-01 User Manual, 3AUA0000020296 Rev A, effective 28 April 2008.

[Open ABB source document](#)

03 CONFIGURATION AND COMMISSIONING

Supply check	24 V DC, +/-10%
Protocol selection	Modbus RTU only
Station address	Unique address from 1 to 247
Communication speed	2400, 4800, 9600, 19200 or 38400 baud
Bus termination	Enable only at the end of the RS-485 bus
New settings	Take effect after the next module power-up

04 FUNCTIONAL VERIFICATION

Verify the drive-specific DDCS configuration and select fieldbus control for the required commands and references. Check PLC register allocation, communication status and actual values before testing drive commands under the site commissioning procedure.

A continuously flashing ERROR LED indicates no response from the drive over the optical connection while the adapter is functioning. Check drive power and fibre connection. Do not assume NMBA-01 mapping or an arbitrary replacement adapter is interchangeable.

Official basis: NWPM-01 User Manual, 3AUA0000020296 Rev A, effective 28 April 2008.

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AMIKON PRODUCT SUPPORT

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