

AMIKON TECHNICAL DOCUMENTATION

Product Data Sheet

ABB NWPM-01

Modbus Drive Adapter Module



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

ABB NWPM-01 connects a compatible ABB drive to a Modbus RTU master through a two-wire RS-485 network. A separate optical DDCS link connects the adapter to the drive, allowing supervisory commands, reference values and operating information to pass between the systems.

01

VERIFIED TECHNICAL SPECIFICATIONS

Serial protocol	Modbus RTU only
Network electrical interface	Two-wire RS-485
Communication role	Drive operates as a Modbus slave
Selectable baud rates	2400, 4800, 9600, 19200 or 38400 baud
Station address range	1 to 247
External supply	24 V DC, +/-10%
Current consumption	65 mA at 24 V DC
Drive-side connection	Optical DDCS; 4 Mbit/s
Enclosure protection	IP20 plastic enclosure

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

[Open ABB source document](#)

02 INSTALLATION AND OPERATING LIMITS

Mounting method	Standard mounting rail; minimum 10 mm adjoining clearance
Maximum fieldbus length	1200 m, documented shielded twisted-pair network
Operating temperature	0 to +50 degrees C
Operating relative humidity	5 to 95%, non-condensing; maximum 60% with corrosive gases
Bus termination	Built-in switchable resistors, enabled only at a bus end
DDCS optical station spacing	Maximum 10 m between stations

03 SYSTEM APPLICABILITY

The manufacturer lists ACS800 SingleDrive, ACS800 MultiDrive and ACS 600 compatibility. Connect the drive-side optical DDCS link and the master-side RS-485 bus as separate interfaces; neither a matching connector nor the ABB brand establishes compatibility with other drives.

ABB documents differences from NMBA-01, including register mapping and communication speed. An NMBA-01 program cannot be assumed to work unchanged. Check the direction and allocation of datasets and the PLC's holding-register addresses before commissioning.

This independent Amikon reference is not a replacement for ABB safety instructions. No packed dimensions, shipping weight, origin, hardware revision or discontinuation date is inferred from the manual.

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

[Open ABB source document](#)

AMIKON PRODUCT SUPPORT

+86-18020776786

INFO@AMIKON.CN

AMIKONG.COM