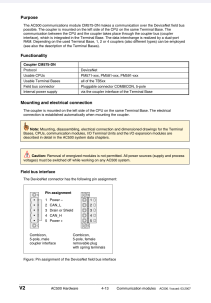


AMIKON TECHNICAL INTELLIGENCE

Product Data Sheet

ABB CM575-DN

DeviceNet Master Communication Module



ROLE	RATE	NETWORK	CONNECTOR
DeviceNet master	125-500 kbit/s	64 nodes	5-pole

ABB CM575-DN connects a supported AC500 CPU to a DeviceNet fieldbus as master. The module exchanges data through the terminal-base coupler bus and provides a removable five-pole COMBICON field connector.

01 VERIFIED PRODUCT PARAMETERS

Network topology	Linear trunk and drop lines; power and signals share the network cable
Supported transmission rates	125, 250 or 500 kbit/s
Field connector	Removable five-pole COMBICON connector with spring terminals
Documented CPU families	PM571-xxx, PM581-xxx and PM591-xxx
Terminal-base interface	Integrated coupler bus; dual-port data exchange
Dual-port memory	8 kByte
Internal RAM	256 kByte
Firmware flash memory	512 kByte
Processor clock	48 MHz
Typical coupler-bus current	180 mA

Technical values were verified against ABB AC500 Hardware V2, 03.2007, CM575-DN section 4-12 to 4-18.

02 ADDITIONAL TECHNICAL DATA

Network node limit	Up to 64 nodes
Maximum thick-trunk lengths	500 m at 125 kbit/s; 250 m at 250 kbit/s; 100 m at 500 kbit/s
Drop-line limits	6 m per drop; cumulative 156/78/39 m at 125/250/500 kbit/s
Data packet size	0-8 bytes
Module-specific operating ambient	0-55 C in the CM575-DN technical-data table

03 SYSTEM ROLE AND APPLICATIONS

Order 1SAP170500R0001 identifies CM575-DN. The documented installation uses a powered trunk-and-drop network with cable-specific length limits and termination at the data-line ends. Verify the CPU, terminal base, network supply and configuration before replacement.

- DeviceNet I/O exchange between an AC500 controller and field nodes.
- Integration of compatible externally powered drive starters on the specified DeviceNet cable.
- Communication with compatible networked solenoid-valve devices using a validated bus and power arrangement.

04 OFFICIAL INSTALLATION FACTS

- Switch off all supply and process voltages before working on the AC500 system; energized module removal is not permitted.
- Fit the coupler on the left side of the CPU in a supported terminal-base slot.
- Connect pin 1 Power-, pin 2 CAN_L, pin 3 drain/shield, pin 4 CAN_H and pin 5 Power+.
- Provide the required DeviceNet network power; the fieldbus drivers are not powered by signal wiring alone.

05 OFFICIAL DOCUMENTATION

[ABB AC500 Hardware V2, 03.2007, CM575-DN section 4-12 to 4-18](#)

AMIKON PRODUCT SUPPORT

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