

Schneider Series Service Manual

170DNT11000

1. Description

The Schneider Electric 170DNT11000 is a communication adaptor from the Modicon Momentum series that facilitates data transmission using the Profibus DP protocol. This device supports a transmission rate ranging from 9.6 to 12 Mbit/s over twisted pair cabling in multidrop or ring topologies.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Line Modicon Momentum
Part	Number 170DNT11000
EAN	3595861000353
Weight	0.19 lbs (0.09 kg)
Product	Communication Adaptor
Communication	Protocol Profibus DP
Transmission	Rate 9.6 to 12 Mbit/s
Transmission	Medium Twisted pair cable
Topology	Multidrop and ring
Number	of Devices Supported Up to 126
Cable	Length Up to 1200 meters
Addressing	Switch-selectable
Control	Parameter CRC-16
Electrical	Connection 1 x 9-pin SUB-D connector
Protection	Rating IP20
Operating	Temperature 0°C to 60°C
Storage	Temperature -40°C to 85°C
Relative	Humidity 95% without condensation
Certifications	UL, CSA

3. Product Information

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Technical specifications for 170DNT11000

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Product Line Modicon Momentum

Part Number 170DNT11000

EAN 3595861000353

Weight 0.19 lbs (0.09 kg)

Product Communication Adaptor

Communication Protocol Profibus DP

Transmission Rate 9.6 to 12 Mbit/s

Transmission Medium Twisted pair cable

Topology Multidrop and ring

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Electrical Connection 1 x 9-pin SUB-D connector

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Storage Temperature -40°C to 85°C

Relative Humidity 95% without condensation

Certifications UL, CSA

The 170DNT11000 communication adaptor by Schneider Electric provides essential connectivity for network systems. Designed for use within the Modicon Momentum series, this adaptor employs the Profibus DP communication protocol, ensuring efficient data exchange between devices. It operates at transmission speeds between 9.6 and 12 Mbit/s via twisted pair cables, suitable for both multidrop and ring network topologies.

A noteworthy feature of this adaptor is its capability to support up to 126 devices, making it suitable for extensive setups. With a maximum cable length possible of 1200 meters, flexibility in installation is optimized. The addressing system is user-friendly, allowing for switch-selectable configurations, ensuring easy integration into existing systems. Additionally, it employs the CRC-16 control parameter to maintain data integrity during transmission.

Connectivity is facilitated through a single 9-pin SUB-D connector. The device is housed with an IP20 rating, protecting it from solid foreign objects but is not designed for exposure to moisture. Operating temperatures for the 170DNT11000 range from 0°C to 60°C, while it can endure storage conditions between -40°C and 85°C without compromising functionality. Additionally, it can effectively operate with a relative humidity of up to 95%, provided that condensation is not present. Compliance with UL and CSA certifications affirms the device's adherence to quality and safety standards.