

Schneider Series Service Manual

170NEF16021C

1. Description

The 170NEF16021C is a communication adapter from Schneider Electric's Modicon Momentum series designed for effective integration using the Modbus Plus protocol. This unit features a transmission rate of 1 Mbit/s and supports up to 31 Momentum devices per segment.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Communication Adapter
Product	Line Modicon Momentum
Part	Number 170NEF16021C
Communication	Protocol Modbus Plus
Topology	Ring
Connection	Type SUB-D
Number	of Pins 9
Transmission	Rate 1 Mbit/s
Max	Devices Up to 31 Momentum Devices Per Segment
Cable	Length Up to 5 km
Protection	Class IP20
Maximum	Operating Humidity 80% (non-condensing)
Maximum	Storage Humidity 80% (non-condensing)
Maximum	Operating Altitude 1000 m above sea level

3. Product Information

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Technical specifications for 170NEF16021C

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Maximum Operating Altitude 1000 m above sea level

Description

The Schneider Electric 170NEF16021C is designed specifically as a communication adapter for the Modicon Momentum series, facilitating the Modbus Plus protocol. With a maximum transmission rate of 1 Mbit/s, it enables quick and efficient communication between devices. The adapter supports a ring topology, ensuring a robust network setup where each device can be part of a continuous path. This unit connects using a SUB-D type connector, featuring 9 pins, which allows for straightforward integration into existing setups. Capable of managing up to 31 Momentum devices per segment, the 170NEF16021C enhances the scalability of your automation solutions. Additionally, it supports a cable length of up to 5 km, providing flexibility in physical layout. The adapter is housed in an enclosure rated at IP20, providing basic dust protection. It is also designed to operate effectively in environments with a maximum humidity of 80% and can be stored under similar conditions without condensation. For altitude considerations, the device is operational up to 1000 meters above sea level, making it versatile for various installation scenarios. Weighing just 0.2 kg, this compact communication adapter is ideal for integration into diverse applications.