

Schneider Series Service Manual

170ENT11002

1. Description

The 170ENT11002 is a communication adapter from Schneider Electric’s Modicon Momentum series. This unit allows for robust network connectivity and operates on an Ethernet Transmission Control Protocol/Internet Protocol. It features a 100BASE-TX port and supports master/slave access methods as well as peer-to-peer communication.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Communication Adapter
Product	Line Modicon Momentum
Part	Number 170ENT11002
EAN	3595862065054
Weight	1.00 lbs (0.45 kg)
Ethernet	Port Type 100BASE-TX
Protection	Class IP20
Access	Method Master/Slave and peer-to-peer (P2P)
Communication	Protocol Ethernet Transmission Control Protocol/Internet Protocol
Baud	Rate 10 megabits per second
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Type	of Control Parameter CRC-32
Network	Topology Star network and multi-drop
Storage	Temperature -40 to 85°C (in a non-condensing environment)
Number	of Devices Per Segment 0 to 32 per segment
Electrical	Connection Type RJ45 connector for 10BASE-T
Maximum	Cable Distance Between Devices More than 3,280 feet (1,000 meters) with repeater and less than 3,280 feet (1,000 meters) without repeater
Operating	Altitude Less than 16,404 feet (5,000 meters)

3. Product Information

The 170ENT11002 is a communication adapter from Schneider Electric's Modicon Momentum series. This unit allows for robust network connectivity and operates on an Ethernet Transmission Control Protocol/Internet Protocol. It features a 100BASE-TX port and supports master/slave access methods as well as peer-to-peer communication.

Technical specifications for 170ENT11002

Manufacturer Schneider Electric

Product Type Communication Adapter

Product Line Modicon Momentum

Part Number 170ENT11002

EAN 3595862065054

Weight 1.00 lbs (0.45 kg)

Ethernet Port Type 100BASE-TX

Protection Class IP20

Access Method Master/Slave and peer-to-peer (P2P)

Communication Protocol Ethernet Transmission Control Protocol/Internet Protocol

Baud Rate 10 megabits per second

Ambient Operating Temperature 0 to 60°C (in a non-condensing environment)

Type of Control Parameter CRC-32

Network Topology Star network and multi-drop

Storage Temperature -40 to 85°C (in a non-condensing environment)

Number of Devices Per Segment 0 to 32 per segment

Electrical Connection Type RJ45 connector for 10BASE-T

Maximum Cable Distance Between Devices More than 3,280 feet (1,000 meters) with repeater and less than 3,280 feet (1,000 meters) without repeater

Operating Altitude Less than 16,404 feet (5,000 meters)

Description

Schneider Electric's Modicon Momentum series features the 170ENT11002, designed as a reliable communication adapter for industrial applications. This unit utilizes a 100BASE-TX Ethernet port, ensuring effective network interactions through the Ethernet Transmission Control Protocol/Internet Protocol. Operating at a baud rate of 10 megabits per second, it facilitates seamless data transmission in a versatile setup.

The unit's protection class is rated at IP20, meaning it is safeguarded against solid objects larger than 12 mm but is not rated for water protection. Its operational parameters allow it to function effectively in ambient temperatures ranging from 0 to 60°C, making it suitable for various controlled environments. For storage, the device can endure temperatures between -40 and 85°C while remaining non-condensing.

As a communication adapter, the 170ENT11002 supports multiple network configurations. It operates within star and multi-drop network topologies, allowing flexibility in system design. In terms of connectivity, this adapter can link up to 32 devices per segment, facilitated by an RJ45 connector intended for 10BASE-T standards.

Even under strenuous conditions, the device remains functional at altitudes below 16,404 feet (5,000 meters). Users can achieve cable distances exceeding 3,280 feet (1,000 meters) when utilizing a repeater, while non-repeater setups limit distances to just under 3,280 feet (1,000 meters). This combination of features makes the 170ENT11002 a practical choice for established and emerging network environments.

Range of Product

Modicon Momentum automation platform

Product or Component Type

Ethernet TCP/IP communication adaptor

Method of access

Peer to peer

Master/slave

Complementary

Communication Port Protocol

Ethernet TCP/IP

Module configuration

BOOTP server to assign IP parameters

Port Ethernet

10BASE-T

Addressing

Unique IEEE global address

IP address user assigned

Fail state

Fail safe

Transmission support medium

Shielded twisted pairs cable

Transmission Rate

10 Mbit/s

Topology

Multidrop, star network

Control parameter

CRC-32

Net Weight

0.15 lb(US) (0.07 kg)

Environment

IP Degree of Protection

IP20

Protective treatment

TC

Marking

CE

Ordering and shipping details

Category

US1PC3118206

Discount Schedule

PC31

GTIN

3595862065054

Returnability

Yes

Country of origin

FR

Packing Units

Unit Type of Package 1

PCE

Nbr. of units in pkg.

1

Package 1 Height

2.283 in (5.800 cm)

Package 1 Width

7.008 in (17.800 cm)

Package 1 Length

10.236 in (26.000 cm)

Package weight(Lbs)

7.725 oz (219.000 g)