Schneider □□□ Series Service Manual

170INT11003

1. Description

The 170INT11003 is a communication adapter belonging to Schneider Electric's Modicon Momentum series. It facilitates an efficient connection between devices using a Master/Slave configuration and supports a communication protocol defined as Interbus Generation SUPI III.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Communication Adapter
Product	Line Modicon Momentum
Part	Number 170INT11003
EAN	3595862060721
Weight	1.00 lbs (0.45 kg)
Access	Method Master/Slave and Continuous Shift Register
Number	of Devices Per Segment 0 to 254 per segment
Communication	Protocol Interbus Generation SUPI III
Maximum	Cable Distance Between Devices More than 3,280 feet (1,000 meters) or 1,312.14 feet (400 meters) between two modules
Power	Dissipation 0.8 Watt (without fiber-optic adapter)
Transmission	Rate 500 kilobits per second
Protection	Class IP20
Ambient	Operating Temperature 0 to 60°C (in a non-condensing environment)
Operating	Altitude Less than 16,404 feet (5,000 meters)
Electrical	Connection Type Two 9-pin D-Sub Interbus Connectors
Storage	Temperature -40 to 85°C (in a non-condensing environment)
Type	of Control Parameter CRC-16
Network	Topology Ring Network
Transmission	Cable Type Twisted Pairs Cable

3. Product Information

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Technical specifications for 170INT11003

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Type of Control Parameter CRC-16

Network Topology Ring Network

Transmission Cable Type Twisted Pairs Cable

Description

Schneider Electric's 170INT11003 serves as a vital communication adapter designed for the Modicon Momentum series. It adopts a master/slave access method alongside a continuous shift register for seamless data transfer. The device can accommodate numerous devices—specifically, 0 to 254 devices per segment—enhancing control over multiple components within a given network.

Operating under the Interbus Generation SUPI III protocol, it ensures reliability across extensive communication scenarios. The maximum cable length permitted between devices exceeds 3,280 feet or 1,000 meters, and between two modules, it is measured at 1,312.14 feet (400 meters).

Power consumption remains low at 0.8 Watts in setups devoid of fiber-optic adapters, aligning with energy-efficient operations. It achieves a high transmission rate of 500 kilobits per second, ensuring quick data handling. The IP20 rating signifies its basic protection against solid foreign objects.

This adapter is designed to work effectively at ambient operating temperatures ranging from 0 to 60°C in non-condensing conditions. It can also function at high altitudes of less than 16,404 feet (5,000 meters). Two 9-pin D-Sub interbus connectors are utilized for electrical connection, ensuring robust linkages within the system. Additionally, it can withstand storage conditions from -40 to 85°C without condensation concerns.

The control parameter for data verification is based on CRC-16, while the network is organized in a ring topology. The device utilizes twisted pairs cables for transmission, which enhances electromagnetic compatibility and reduces interference.