

Schneider 170INT11003 Manual

Brand	Schneider
Product Series	Schneider
Product Type	Communication Adapter

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 SUP-I III.

- Technical specifications for 170INT11003
- 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 SUP-I 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

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 SUP-I 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 settings 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.

Technical Specifications

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Transmission Cable Type Twisted Pairs Cable