

Schneider Series Service Manual

140NOM21200C

1. Description

The Schneider Electric 140NOM21200C from the Modicon Quantum series serves as a DIO head-end adapter. It supports two Modbus RS-485 interfaces and a single Modbus RS-232 interface with a maximum transmission rate of 1 Mbps, ensuring robust communication capabilities.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type DIO head-end adaptor
Product	Line Modicon Quantum
Part	Number 140NOM21200C
EAN	3595861136250
Interfaces	2 Modbus RS-485, 1 Modbus RS-232
Transmission	Rate 1 Mbps
I/O	Words 30 I/32 O
Power	Dissipation 4 W
Standards	UL 508
Bus	Current Requirement 780 mA
Ambient	Temperature 0 to 60 °C
Humidity	95 % without condensation
Operating	Altitude <= 16404.2 ft (5000 m)
Protective	Treatment Conformal coating
Resistance	to Electrostatic Discharge 4 kV contact, 8 kV on air

3. Product Information

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Technical specifications for 140NOM21200C

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Description

The 140NOM21200C is a DIO head-end adapter essential for Schneider Electric's Modicon Quantum series. It is designed with versatile communication features, including two Modbus RS-485 interfaces and one Modbus RS-232 interface, capable of achieving a transmission speed of 1 Mbps.

With the capacity to handle 30 input and 32 output words, this module facilitates substantial data management within automated systems. The device operates with a power dissipation of 4 watts and complies with UL 508 standards. A bus current of 780 mA is necessary for its operation. This adaptor has a resilient operating range, capable of functioning in ambient temperatures from 0 to 60 °C. It can withstand humidity levels up to 95% without the risk of condensation forming.

In terms of environmental resilience, it can operate at altitudes reaching 16,404.2 feet (5000 meters), ensuring adaptability in various installations. The unit features a conformal coating for additional protection. Moreover, it is designed to resist electrostatic discharge, with a rating of 4 kV for contact and 8 kV for air discharge. This makes the 140NOM21200C suitable for demanding industrial applications.

Range of product

Modicon Quantum automation platform

Product or component type

DIO head-end adaptor

Complementary

Product compatibility

140CRA21210

140CRA21220

Number of port

1 Modbus RS232 twisted pair redundant copper

2 Modbus Plus RS485 twisted pair redundant copper

Transmission rate

1 Mbit/s

I/O words

30 I/32 O

Checks

RAM

RAM address

Processor

Checksum

Power dissipation in W

4 W

Bus current requirement

780 mA

Environment

Resistance to electrostatic discharge

4 kV contact conforming to IEC 801-2

8 kV on air conforming to IEC 801-2

Resistance to electromagnetic fields

10 V/m 80...2000 MHz conforming to IEC 801-3

Ambient air temperature for operation

0...60 °C
Ambient air temperature for storage
-40...85 °C
Relative humidity
95 % without condensation
Operating altitude
<= 5000 m
Protective treatment
Conformal coating Humiseal 1A33
Standards
UL 508
Product certifications
DNV
C-Tick
GL
RINA
FM Class 1 Division 2
RMRS
CSA
GOST
Packing Units
Unit Type of Package 1
PCE
Number of Units in Package 1
1
Package 1 Height
5.0 cm
Package 1 Width
16.5 cm
Package 1 Length
31.5 cm
Package 1 Weight
508.0 g