

Schneider 140NOM21100C Manual

Brand	Schneider
Product Series	Schneider
Product Type	DIO head-end adaptor

Description

The 140NOM21100C is a DIO head-end adaptor belonging to the Schneider Electric Modicon Quantum series. This device enables communication via Modbus protocols over RS-485 and RS-232 interfaces, with a transmission speed of 1 Mbps. It features up to 30 input and 32 output words, supporting diverse applications for data exchange.

Technical specifications for 140NOM21100C

Manufacturer Schneider Electric

Product Type DIO head-end adaptor

Product Line Modicon Quantum

Part Number 140NOM21100C

EAN 3595861135765

Interfaces Modbus RS-485, Modbus RS-232

Transmission Rate 1 Mbps

I/O Words 30 I/32 O

Power Dissipation 4 W

Bus Current Requirement 780 mA

Format Standard

Resistance to Electrostatic Discharge 4 kV contact, 8 kV on air

Ambient Temperature 0 to 60 °C

Humidity 95 % without condensation

Operating Altitude <= 16404.2 ft (5000 m)

Protective Treatment Conformal coating

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Description

The 140NOM21100C head-end adaptor from Schneider Electric's Modicon Quantum line is intended for integrating input and output functions into systems. This DIO module supports communication through Modbus RS-485 and RS-232, promoting effective and fast data transmission at a rate of 1 Mbps. With a capacity of 30 input and 32 output words, it facilitates efficient data handling within applications.

In terms of electrical specifications, it dissipates 4 W of power and requires a bus current of 780 mA for optimal operation. This adapter is built for functionality in various environments, operating effectively within a temperature range of 0 to 60 °C. It can endure high humidity conditions, rated at 95 % without any condensation, ensuring reliable performance over time.

The device's design allows it to function at altitudes of up to 16,404.2 feet (5000 meters), making it suitable for a range of installations. It incorporates robust electrostatic discharge resistance, rated at 4 kV contact and 8 kV in air, protecting against transient voltages. Finally, the conformal coating enhances its durability and suitability for use in challenging industrial conditions.

Range of product

Modicon Quantum automation platform

Product or component type

DIO head-end adaptor

Complementary

Product compatibility

140CRA21110

140CRA21120

Number of port

1 Modbus Plus RS485 twisted pair single copper

1 Modbus RS232 twisted pair single copper

Transmission rate

1 Mbit/s

I/O words

30 I/32 O

Checks

RAM address

RAM

Processor

Checksum

Power dissipation in W

4 W

Bus current requirement

780 mA

Module format

Standard

Environment

Resistance to electrostatic discharge

4 kV contact IEC 801-2

8 kV on air IEC 801-2

Resistance to electromagnetic fields

9.1 V/yd (10 V/m) 80...2000 MHz IEC 801-3

Ambient air temperature for operation

32...140 °F (0...60 °C)

Ambient air temperature for storage

-40...185 °F (-40...85 °C)

Relative humidity

95 % without condensation

Operating altitude

<= 5000 m

Protective treatment

Conformal coating Humiseal 1A33

Standards

UL 508

Product certifications

RMRS

FM Class 1 Division 2

CSA

GOST

C-Tick

Packing Units

Unit Type of Package 1

PCE

Number of Units in Package 1

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1

Package 1 Height

1.890 in (4.800 cm)

Package 1 Width

6.496 in (16.500 cm)

Package 1 Length

12.402 in (31.500 cm)

Package 1 Weight

17.284 oz (490.000 g)

Unit Type of Package 2

S02

Number of Units in Package 2

2

Package 2 Height

5.906 in (15.000 cm)

Package 2 Width

11.811 in (30.000 cm)

Package 2 Length

15.748 in (40.000 cm)

Package 2 Weight

2.240 lb(US) (1.016 kg)

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