

Schneider Series Service Manual

140NOA62200C

1. Description

The 140NOA62200C is an Interbus master module from the Schneider Electric Modicon Quantum series. Engineered for use in challenging environments, this module supports a robust performance using twisted pair cabling and complies with various industry standards including UL and CSA.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Interbus master module
Product	Line Modicon Quantum
Part	Number 140NOA62200C
Format	Standard
Product	Specific Application For severe environments
Method	of Access Master
Cable	Twisted pair
Maximum	Cable Distance 20 m
Bus	Current Requirement 800 mA
Rack	Type Local
Power	Dissipation 4 W
Marking	CE
Ambient	Temperature 0 to 60 °C
Standards	UL, CSA

3. Product Information

The 140NOA62200C is an Interbus master module from the Schneider Electric Modicon Quantum series. Engineered for use in challenging environments, this module supports a robust performance using twisted pair cabling and complies with various industry standards including UL and CSA.

Technical specifications for 140NOA62200C

Manufacturer Schneider Electric

Product Type Interbus master module

Product Line Modicon Quantum

Part Number 140NOA62200C

Format Standard

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Method of Access Master

Cable Twisted pair

Maximum Cable Distance 20 m

Bus Current Requirement 800 mA

Rack Type Local

Power Dissipation 4 W

Marking CE

Ambient Temperature 0 to 60 °C

Standards UL, CSA

Description

The 140NOA62200C module, part of Schneider Electric’s Modicon Quantum line, is designed as an Interbus master module primarily utilized in demanding operational environments. This device follows a standard format and is accessible via the master method, ensuring reliable communication within a network of industrial automation. It operates effectively using twisted pair cabling, capable of reaching a maximum cable length of up to 20 meters. With a bus current requirement of 800 mA, the module ensures adequate power distribution throughout its connections. The overall power dissipation is maintained at 4 watts, supporting efficient operation. Weighing approximately 0.9 kg, this device is built for local rack type installations. The ambient temperature range for this module is set between 0 to 60 °C, which allows for varied application environments. Additionally, it is marked with CE certification and complies with recognized standards such as UL and CSA, reinforcing its suitability for use in industrial contexts.

Range of product

Modicon Quantum automation platform

Product or component type

Interbus master module

Software designation

Concept

ProWORX 32

Software version

V 2.5 SR2

Module type

Interbus generation 4

Format

Standard

Complementary

Product compatibility

140CPU53414B

140CPU43412A

140CPU11303

Product specific application

For severe environments

Module profile

PCP V2.0

Method of access

Master

Communication port protocol

Interbus RS485 isolated 500 kbit/s conforming to DIN 66020

Serial link

Type of cable

Twisted pair

Maximum cable distance between devices

20 m

Memory capacity

128 kB + 256 kB firmware EPROM

2 kB dual-port RAM RAM

256 kB + 32 kB for data RAM

64 kB Interbus command sequence EEPROM

64 kB multi-port RAM RAM

Bus current requirement

800 mA

Product compatibility

6 x 140CPU11303 Interbus local rack

2 x 140CPU43412A or 140CPU53414B Interbus local rack

Rack type

Local

Power dissipation in W

4 W

Local signalling

1 LED (green) for communication with the Quantum CPU active (ACTIVE)

1 LED (green) for firmware and module run (RUN)

1 LED (green) for Interbus is functioning normally and carrying data (IS-B RUN)

1 LED (red) for fault module (F)

1 LED (red) for initialization fault with the DEA 202

1 LED (red) for Interbus master is not operational

1 LED (red) for Interbus module has reported a fault

1 LED (red) for memory fault

1 LED (red) for peripheral bus fault

1 LED (red) for processor fault (master)

1 LED (red) for remote bus fault

1 LED (yellow) for one or more bus segments are shut down

Electrical connection

1 connector SUB-D 9

1 connector SUB-D 9 Interbus link

Marking

CE

Net weight

0.9 kg

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...1000 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

Product certifications

CSA

UL