

Connection (continued)

For diagram numbers, see page 5/48

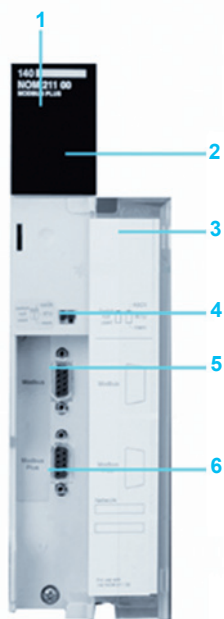
- 1 **140NOM21200**: Quantum Modbus Plus head-end interface, redundant medium, twisted pair cable
- **140NOM21100**: Quantum Modbus Plus head-end interface, single medium, twisted pair cable
- 2 **140NOM25200**: Quantum Modbus Plus head-end interface, redundant medium, optical fibre cable (TX/RX)
- 3 **140CPU**: Quantum CPU with integrated Modbus Plus port, single-cable medium, twisted pair cable
- 4 **140CRA21210**: Quantum Modbus Plus drop interface and power supply, redundant medium, 115/230 V ~
- **140CRA21220**: Quantum Modbus Plus drop interface and power supply, redundant medium, 24 V ---
- 5 **140CRA21110**: Quantum Modbus Plus drop interface and power supply, single-cable medium, 115/230 V ~
- **140CRA21120**: Quantum Modbus Plus drop interface and power supply, single-cable medium, 24 V ---
- 6 **170PNT16020**: Momentum Modbus Plus communication adaptor, redundant network, IEC medium
- 7 **170NEF16021**: Momentum Modbus Plus communication adaptor, redundant network, 984 medium
- **170NEF11021**: Momentum Modbus Plus communication adaptor, non-redundant network, 984 medium
- 8 **170PNT11020**: Momentum Modbus Plus communication adaptor, non-redundant network, IEC medium
- 9 **490NRP25400**: Modbus Plus repeater, line/drop, optical fibre medium
- **490NRP25300**: Modbus Plus repeater, point-to-point, optical fibre medium
- **NWBM85C002**: Modbus Plus gateway/multiplexer, panel or shelf mount, 4 Modbus Plus ports
- **NWRR85001**: Modbus Plus repeater, coaxial cable
- 10 **AMSA85030**: Modbus Plus ISA PC adaptor, single port
- 11 **416NHM30030**: Modbus Plus PCI PC adaptor, single port
- 12 **SWMXDS001**: Modbus Plus driver suite
- 13 **990NAD23011**: Modbus Plus T-connector ruggedized terminators
- 14 **174CEV20040**: Modbus Plus-Ethernet bridge
- 15 **416NHM21234**: Modbus Plus type III PCMCIA card, single port with Plug-and-Play capability
- 16 **990NAD23000**: Modbus Plus T-connector, IP 20
- 17 **990NAD23010**: Modbus Plus T-connector, IP 65
- **ASMBKT085**: Modbus Plus inline connector
- **ASMBKT185**: Modbus Plus terminating connector
- 18 **990NAD21110**: Drop cable, 2.4 m
- 19 **990NAA21510**: Ruggedized T-connector programming cable, 3.05 m
- 20 **170MCI02120**: Modbus Plus RJ45 cable, 3.05 m
- 21 **170XTS02000**: Modbus Plus "T" connector (DB9 base)
- 22 **170MCI02010**: Modbus Plus RS 485 cable, 25 cm
- 23 **170MCI02080**: Modbus Plus RJ45 cable, differential, 10 m
- 24 **170XTS02100**: Modbus Plus RJ45 terminator
- 25 **416NHM30032**: Modbus Plus PCI PC adaptor, two ports
- **NWBP85002**: Modbus Plus Bridge Plus, 4 Modbus Plus ports

Description

140CPU modules incorporate a Modbus Plus port as standard, which can be used for DIO network no. 1 (see description on pages 1/8 and 1/9).

140NOM211●0 and **140NOM212●0** Modbus Plus head-end adaptors for DIO network no. 2 or no. 3 have the following on the front panel:

- 1 Model number and colour code
- 2 A display block with 6 LEDs: Ready (green), Fault (red), Pwr ok (green), Modbus + (green), Ready (green), Error B (red)
- 3 A removable hinged door with a customizable identification label
- 4 A microswitch for configuring the Modbus port (ASCII-RTU-mem)
- 5 A 9-way female SUB-D connector for connecting the Modbus link
- 6 A 9-way female SUB-D connector for connection to DIO Modbus Plus network no. 2 or no. 3



140NOM211●0 /
140NOM212●0

Automation platform

Modbus Plus network

References

Modbus Plus gateways and repeaters

Description	Supply	Medium	Number and type of ports	Item	Reference	Weight kg/lb
Gateways/ Multiplexers	115/220 V ~ or 24 V ---	Panel or shelf	2 Modbus Plus 4 RS 232 Modbus	—	NWBM85C002	—
	24 V --- or 115 V ---	19" rack- mount	2 Modbus Plus 4 RS 232 Modbus	—	NWBM85D008	—
Router	115/220 V ~ or 24 V ---	Panel or shelf	4 Modbus Plus	—	NWBP85002	—
Modbus Plus repeater		Coaxial cable		—	NWRR85001	—
Point-to-point transceiver		Optical fibre/copper		—	490NRP25300	—
Line/drop transceiver		Optical fibre/fibre optic/copper		9	490NRP25400	—

Modbus Plus communication devices (1)

Description		Medium	Type	Item	Reference	Weight kg/lb
Quantum Modbus Plus	DIO drop adaptors (including power supply)	Single	115/230 V ~ (3)	5	140CRA21110	—
			24 V --- (4)	—	140CRA21120	—
		Redundant	115/230 V ~ (3)	4	140CRA21210	—
			24 V --- (4)	—	140CRA21220	—
	Quantum CPU DIO head-end no. 1	Single	Twisted pair cable	3	140CPU (2)	—
	DIO head-end adaptors no. 2 and no. 3	Single	Twisted pair cable	—	140NOM21100	—
		Redundant	Twisted pair cable	1	140NOM21200	—
		Redundant	Optical fibre cable	2	140NOM25200	—
Momentum Modbus Plus	Communication adaptor	Non- redundant	IEC medium	8	170PNT11020	—
		Network	984 medium	—	170NEF11021	—
		Redundant	IEC medium	6	170PNT16020	—
		Network	984 medium	7	170NEF16021	—

PC interface cards

Description	Number of ports	Item	Reference	Weight kg/lb
Modbus Plus ISA PC adaptor	1	9	AMSA85030	—
	2	—	AMSA85032	—
Modbus Plus PCI PC adaptor	1	11	416NHM30030	—
	2	25	416NHM30032	—
Modbus Plus, PnP type III PCMCIA card	1	15	416NHM21234	—
Modbus Plus driver suite	—	12	SWMXDS001	—

(1) Other devices: For TSX Micro/Premium PLCs, Modicon STB distributed I/O, etc, see the respective catalogues.

(2) See pages 1/12.

(3) Input current: 0.4 A at 115 V ~; 0.2 A at 230 V ~. External fuse: 1.5 A

(4) Input current: 1.6 A. External fuse: 2.5 A

Main

Accessory / separate part category	Connection accessories
Accessory / separate part type	Modbus Plus bridge with 4 ports
Range of product	Automation platform

Complementary

Communication port protocol	Modbus Plus
Communication port support	-
Modbus Plus bridges and repeaters characteristics	- Bridge
Mounting support	Shelf Panel
Number of port	4
Net weight	2.813 kg
[Us] rated supply voltage	115...220 V AC 24 V DC
Transmission support medium	-

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	12.2 cm
Package 1 Width	27.0 cm
Package 1 Length	35.0 cm
Package 1 Weight	2.84 kg
Unit Type of Package 2	S04
Number of Units in Package 2	3
Package 2 Height	30 cm
Package 2 Width	40 cm
Package 2 Length	60 cm
Package 2 Weight	8.92 kg

Offer Sustainability

EU RoHS Directive	Not applicable, out of EU RoHS legal scope
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins