

Connection (continued)

For diagram numbers, see page 5/48

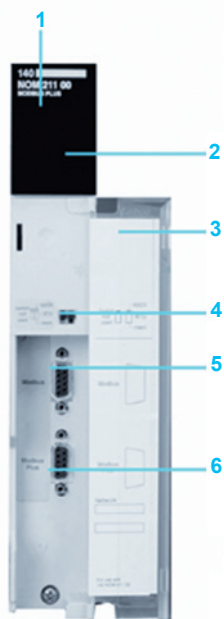
- 1 **140NOM21200**: Quantum Modbus Plus head-end interface, redundant medium, twisted pair cable
- **140NOM21100**: Quantum Modbus Plus head-end interface, single medium, twisted pair cable
- 2 **140NOM25200**: Quantum Modbus Plus head-end interface, redundant medium, optical fibre cable (TX/RX)
- 3 **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 type	Point-to-point fibre optic repeater
Range of product	Automation platform Modicon Quantum

Complementary

Communication port protocol	-
Communication port support	-
Modbus Plus bridges and repeaters characteristics	Repeater Between pins
Mounting support	-
Transmission support medium	Fiber optic

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.0 cm
Package 1 Width	27.2 cm
Package 1 Length	35.0 cm
Package 1 Weight	2.875 kg
