

Guidelines for the electrician

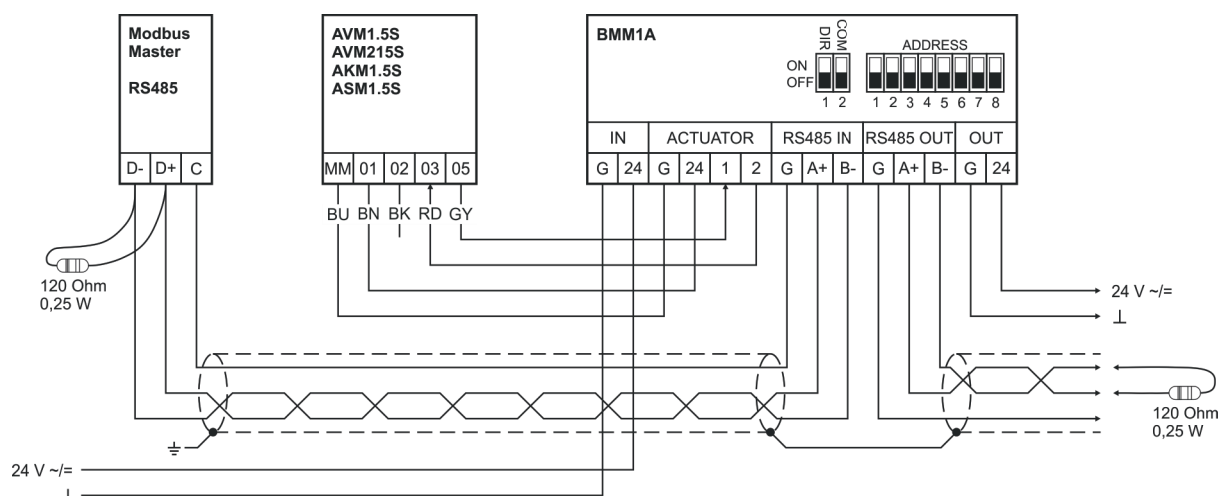
1 BMM1A



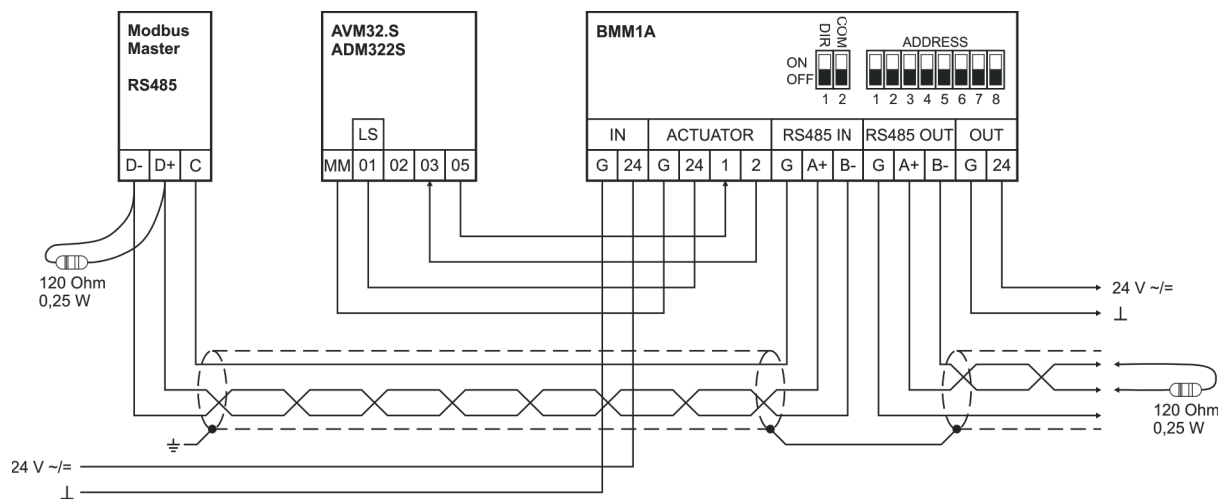
BMM1A									
		COM DIR ON OFF		ADDRESS					
		1 2		1 2 3 4 5 6 7 8					
IN	ACTUATOR	RS485 IN	RS485 OUT	OUT					
G 24	G 24 1 2	G A+ B-	G A+ B-	G 24					

- Dimensions: 140 x 80 x 43 mm
- Power supply: 24 V AC/DC +/-10%
- Power consumption (without actuator): 3 W
- Actuator power supply: 24V AC/DC
- max. power actuator: < 50 W
- analog input: 0...10 V
- analog output: 0...10 V
- Communication: RS485
- Communication protocol: Modbus / BACnet
- Storage temperature: -30 ... 80 °C
- Operating temperature: -20 ... 50 °C
- IP class: IP54

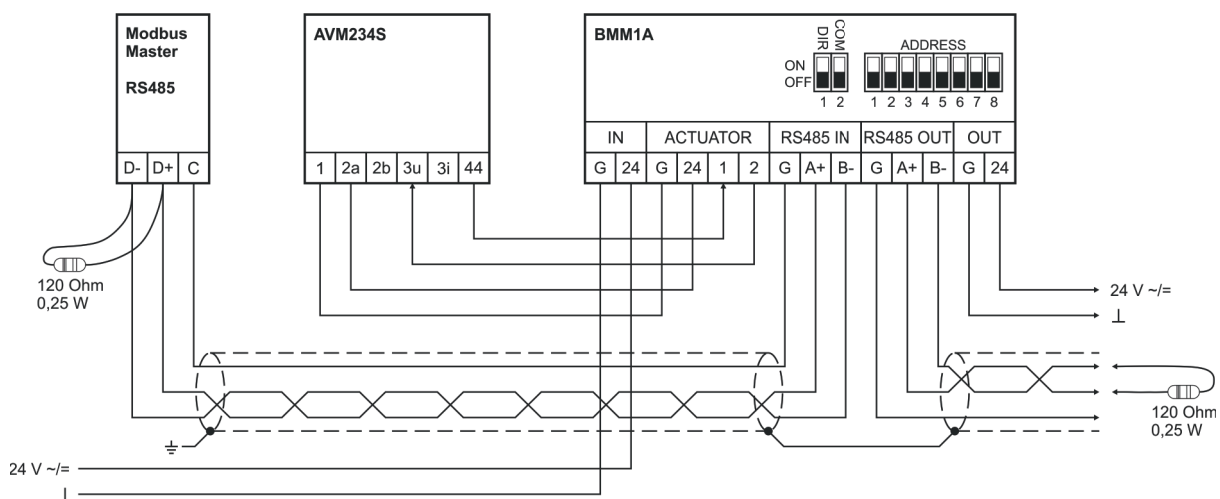
2a AVM1.5S / AVM215S / AKM1.5S / ASM1.5S



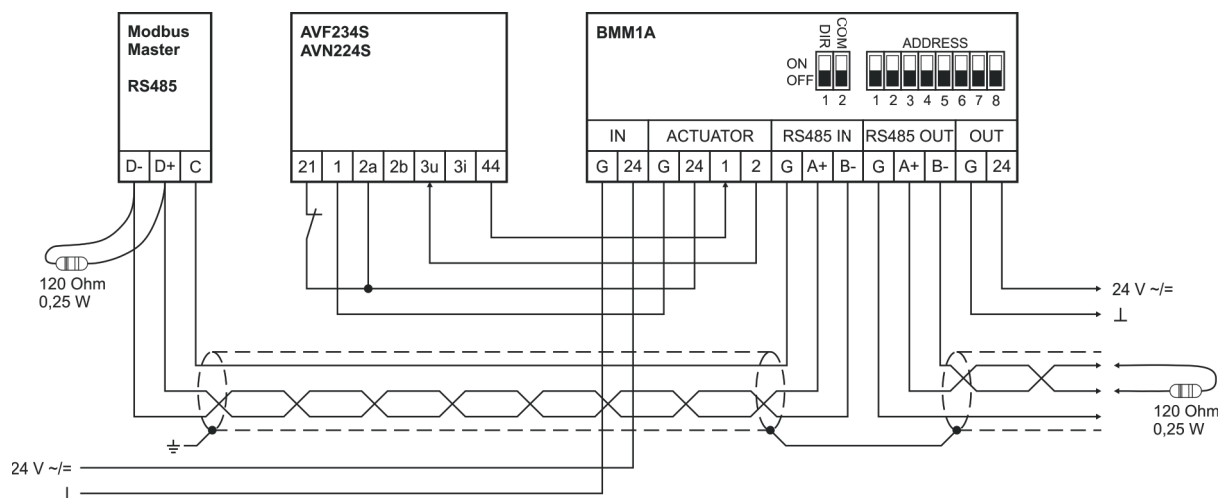
2b AVM32.S / ADM322S



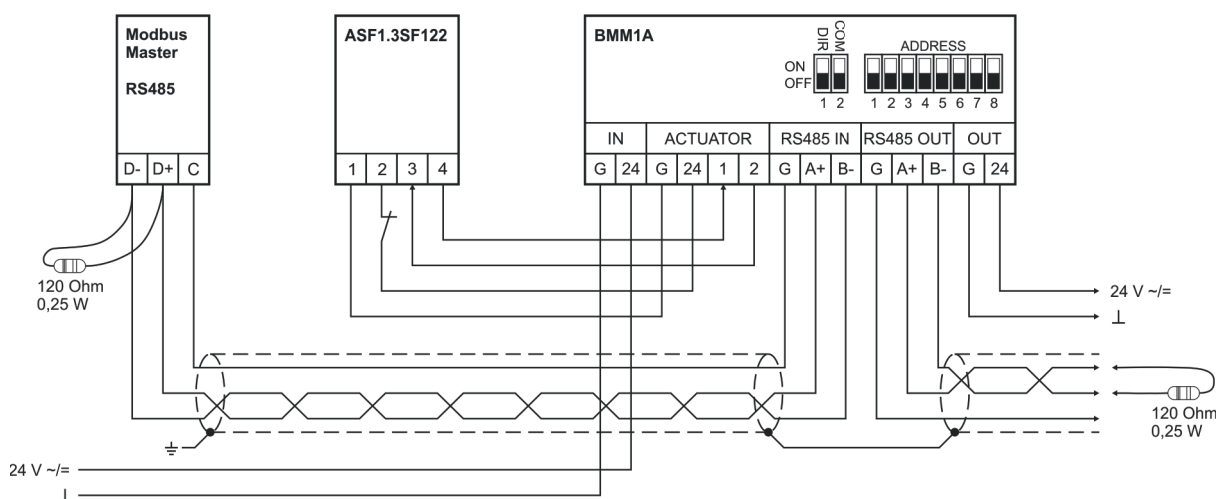
2c AVM234S



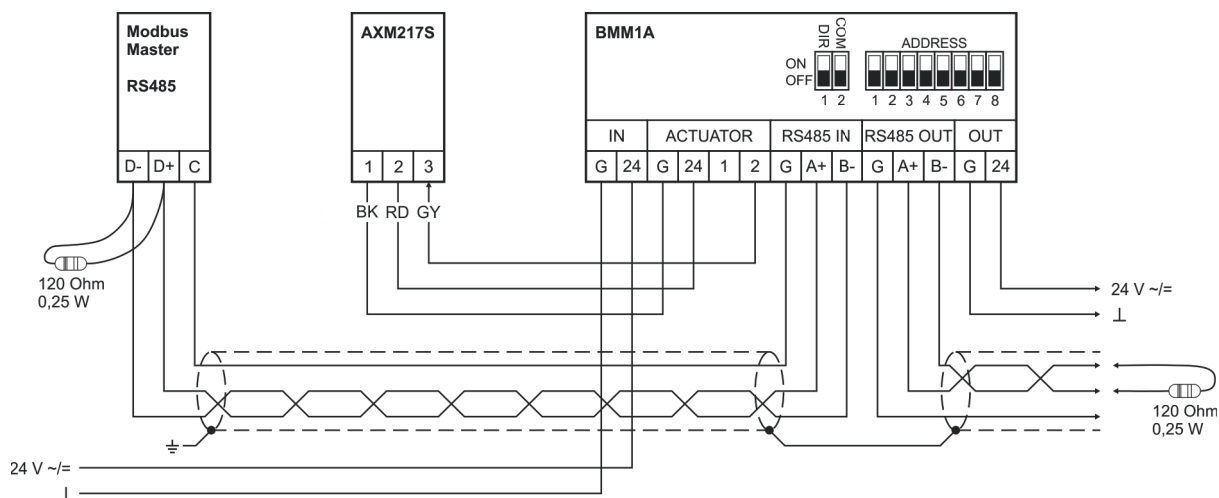
2d AVF234S / AVN224S



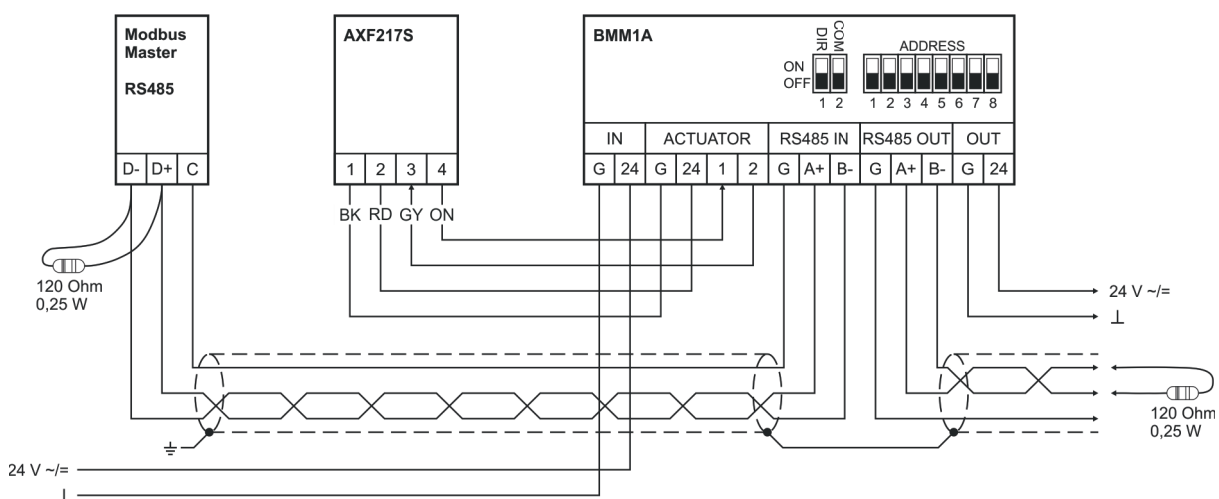
2e ASF113SF122 / ASF123SF122



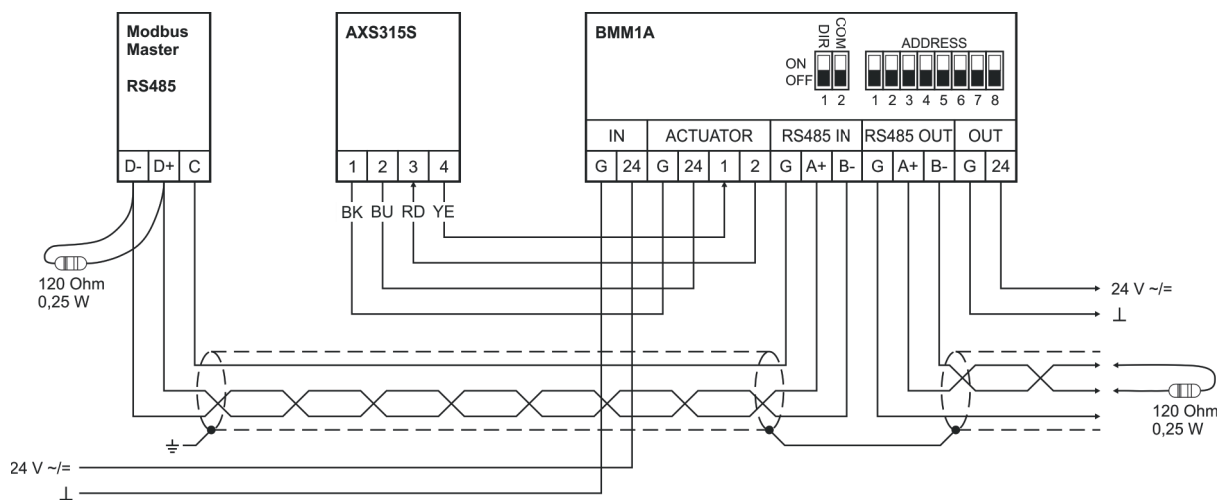
2f AXM217S



2g AXF217S



2h AXS315S



5a Modbus RTU:

Default communication settings: 9600N1

Commands allowed: 0x03, 0x06

Holding registers map:

Address	Description	Range of values	Rights
0x0000 (0)	Analog input value	x100, 10V => value 1000	R
0x0100 (256)	Analog output value	x100, 10V => value 1000	R/W
0x0200 (512)	Watchdog timeout value (seconds)	0 – 65535 seconds	R/W
0x0600 (1536)	Communication bus speed (respected only for Modbus RTU mode)	0 – 2.4 kbit 1 – 4.8 kbit 2 – 9.6 kbit (default) 3 – 14.4 kbit 4 – 19.2 kbit 5 – 28.8 kbit 6 – 38.4 kbit 7 – 57.6 kbit 8 – 76.8 kbit 9 – 115.2 kbit 10 – 230.4 kbit 11 – 250 kbit 12 – 500 kbit	R/W
0x0601 (1537)	Watchdog reset event	0 – output set command 1 – online (communication with device)	R/W
0x0602 (1538)	Watchdog behaviour	0 – relinquish of outputs 1 – do nothing	R/W

5b BACnet MS/TP

Build-in autobaud rate functionality
Services supported:

SERVICE_UNCONFIRMED_WHO_IS,
SERVICE_UNCONFIRMED_WHO_HAS,
SERVICE_UNCONFIRMED_I_AM,
SERVICE_UNCONFIRMED_I_HAVE,

SERVICE_CONFIRMED_READ_PROPERTY,
SERVICE_CONFIRMED_READ_PROP_MULTIPLE,
SERVICE_CONFIRMED_REINITIALIZE_DEVICE,
SERVICE_CONFIRMED_WRITE_PROPERTY,
SERVICE_CONFIRMED_WRITE_PROP_MULTIPLE,
SERVICE_CONFIRMED_PRIVATE_TRANSFER,
SERVICE_CONFIRMED_DEVICE_COMMUNICATION_CONTROL

Objects supported:

OBJECT_DEVICE,
OBJECT_ANALOG_INPUT,
OBJECT_ANALOG_OUTPUT,
OBJECT_ANALOG_VALUE,
OBJECT_MULTI_STATE_VALUE,



- Electrical connection
- There is a danger to life from electric shock. Parts carrying mains voltage are located under the cover.
- The device may only be opened by a qualified electrician or the service staff of the manufacturer.
- Before starting any work on the electrical connections, disconnect the device from the mains.
- Do not energize the device until it is completely assembled and the housing is closed.
- Do not leave the device in the open state unattended to prevent access by non-specialists and especially children.