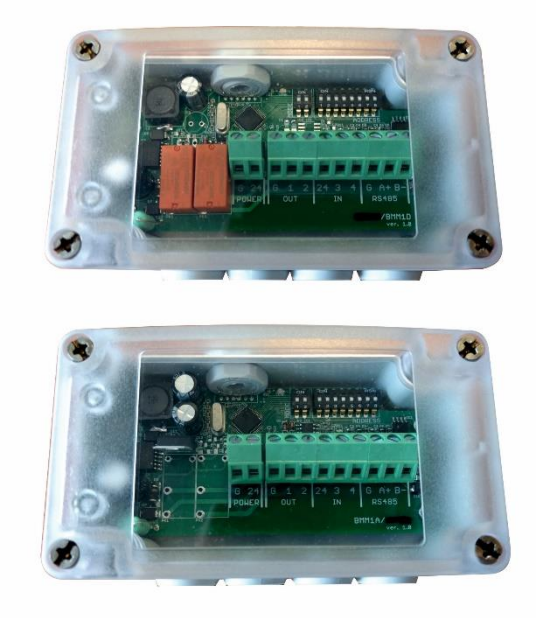
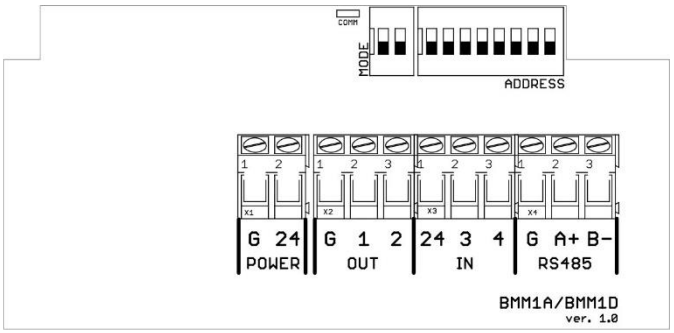


Technische Daten:

- Abmessungen: 140 x 80 x 43 mm
- Spannungsversorgung: 24 V AC/DC +/-10%
- Stromaufnahme (ohne Verbraucher): 3 W
- für Stellantriebe 24V AC/DC
- max. Stromaufnahme Stellantrieb: < 50 W
- Antriebstypen:
  BMM1A – stetige Antriebe (0(2)-10 V... 0(4)-20mA)
  BMM1D – 2/3-Punkt Antriebe 24 V AC/DC
- Kommunikation: RS485
- Kommunikationsprotokoll: ModBus / BACnet
- Lagertemperatur: -30 … 80 °C
- Arbeitstemperatur: -20 … 50 °C
- IP Klassifizierung: IP54

Anschlüsse/ Bedienelemente / Einstellungen:



POWER G – Spannungsversorgung 24V Ground
POWER 24 – Spannungsversorgung 24 V AC/DC
OUT G – Spannungsversorgung Antrieb Ground
OUT 1
  BMM1A: Analoges Eingagnssignal Antrieb (0-10V...0-20mA)
  BMM1D: Relay 1
OUT 2
  BMM1A: Rückmeldesignal Antrieb (0-10V...0-20mA)
  BMM1D: Relay 2
IN 24 – Interne Brücke 24V Power zu IN 24 / Spannungsversorgung Antrieb 24V AC/DC
IN 3 – Digital input 1
IN 4 – Digital input 2
RS485 – Kommunikation

Adressen DIP-Schalter – 8 bit address
MODE Switch – Communication settings
COMM LED – Communication indicator LED

Objectlist

Switchers:

DIR	COM		ADDRESS							
			1	2	3	4	5	6	7	8

DIR – direct acting(factory setting) or (reverse outputs signals)
COM – 0: Modbus RTU, 1: BACnet MS/TP (autobaud rate)
ADDRESS – Modbus address or MAC address

Modbus RTU:
Default communication settings: 9600N1

Commands alowed: 0x03, 0x06

Holding registers map:

Address	Description	Range of values	Rights
0x0000	Analog input value (only for BMM1**A**)	x100, 10V => value 1000	R
0x0100	Analog output value (only for BMM1**A**)	x100, 10V => value 1000	R/W
0x0200	Watchdog timeout value (seconds)	0 – 65535 seconds	R/W
0x0300	Binary input 1 state	0 / 1	R
0x0301	Binary input 2 state	0 / 1	R
0x0400	Binary output 1 state - relay 1 (only for BMM1**D**)	0 / 1	R/W
0x0401	Binary output 2 state - relay 2 (only for BMM1**D**)	0 / 1	R/W
0x0600	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	Watchdog reset event	0 – output set command 1 – online (communication with device)	R/W
0x0602	Watchdog behaviour	0 – relinquish of outputs 1 – do nothing	R/W

Objectlist

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_BINARY_INPUT,
OBJECT_BINARY_OUTPUT,
OBJECT_ANALOG_VALUE,
OBJECT_MULTI_STATE_VALUE,