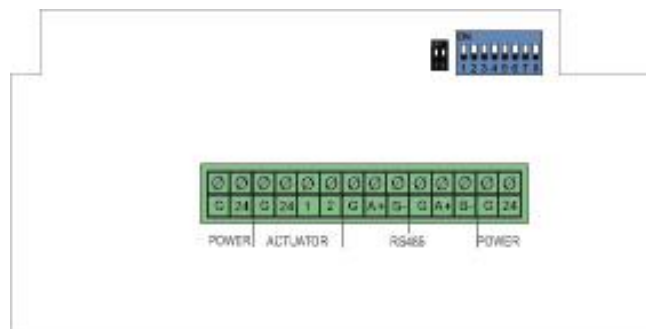




### Technische Daten:

- 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: stetige Antriebe (0(2)-10 V... 0(4)-20mA)
- Kommunikation: RS485
- Kommunikationsprotokoll: ModBus / BACnet
- Lagertemperatur: -30 ... 80 °C
- Arbeitstemperatur: -20 ... 50 °C
- IP Klassifizierung: IP54

### Anschlüsse/ Bedienelemente / Einstellungen:



- POWER **G** – Spannungsversorgung 24V Ground / Eingang  
 POWER **24** – Spannungsversorgung 24 V AC/DC / Eingang  
 ACTUATOR **G** – Spannungsversorgung Antrieb Ground  
 ACTUATOR **24** – Interne Brücke 24V Power zu IN 24 / Spannungsversorgung Antrieb 24V AC/DC  
 ACTUATOR **1** – Analoges Eingangssignal Antrieb ( 0-10V...0-20mA)  
 ACTUATOR **2** – Rückmeldesignal Antrieb ( 0-10V...0-20mA)  
**G** – RS485 – Kommunikation / Eingang  
**A+** – RS485 – Kommunikation / Eingang  
**B-** – RS485 – Kommunikation / Eingang  
**G** – RS485 – Kommunikation / Ausgang  
**A+** – RS485 – Kommunikation / Ausgang  
**B-** – RS485 – Kommunikation / Ausgang  
 POWER **G** – Spannungsversorgung 24V Ground / Ausgang  
 POWER **24** – Spannungsversorgung 24 V AC/DC / Ausgang

- Adressen DIP-Schalter – 8 bit Adressierung  
 MODE Switch – Bus Einstellung  
 COMM LED – Kommunikationsanzeige 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 allowed: 0x03, 0x06

## Holding registers map:

Address	Description	Range of values	Rights
0x0000	Analog input value (only for BMM1A)	x100, 10V => value 1000	R
0x0100	Analog output value (only for BMM1A)	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 BMM1D)	0 / 1	R/W
0x0401	Binary output 2 state - relay 2 (only for BMM1D)	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
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## 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,*