
MAGIO MINI

BH-RS485

BUS ADAPTER

DATA SHEET



·: **BITHOUSE** :·
every bit matters

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Product Safety

Intended Use

This product is intended for use in building automation and light industrial applications.

This product must be used in accordance with all applicable safety requirements, regulations and instructions provided in the product documentation, including this data sheet.

Only recommended conductors/cables and accessories/equipment may be used with the product.

Operating Environment

PARAMETER	VALUE
Ambient temperature	0–50°C
Humidity	< 95 % non-condensing

Recycling

WEEE business products reception points:

www.elker.fi/en/reception-points-for-business-products/

Product Information

Overview

Magio Mini BH-RS485 is a bus adapter with two RS485 buses.

The product package includes a USB cable (USB 3.0 USB-C™ to USB-A Cable, 90°, 1 m, Black).

Cable / Tightening Torque

$\leq 1,5 \text{ mm}^2 / 0,2 \text{ Nm}$.

Twisted pair, e.g. CAT 6.

Module Power Consumption

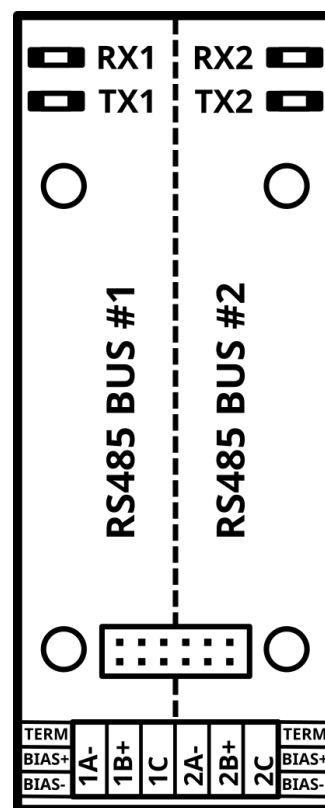
24 V_{DC} rated current: 30 mA (at maximum load of 54 Ω).

Connectors and Components

CONNECTOR/ COMPONENT	DESCRIPTION
1A-, 1B+	Bus 1.
2A-, 2B+	Bus 2.
1C, 2C	Ground (GND/0 VDC) via a 100 Ω resistor. The terminals are directly connected to each other.
RX1, RX2	LED: Data transmitted on the bus
TX1, TX2	LED: Packet transmitted from the board
BIAS+, BIAS-	Manually set jumper: bias resistors
TERM	Manually set jumper: 120 Ω termination

Dimensions

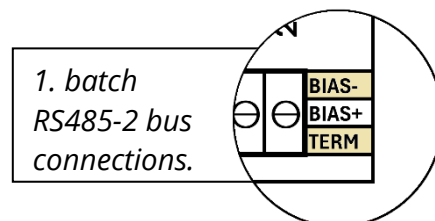
SPECIFICATION	VALUE
Mounting rail	35 mm DIN-rail
Width	36.3 mm (2 DIN-modules)
Height	90.5 mm
Depth	62.0 mm
Weight	75 g



Board Versions

In the first production batch, the BIAS and TERM connections on the RS485-2 bus differ from those in subsequent production batches.

The module enclosure is marked separately.



Technical Specifications

Two buses per board. Modbus RTU is typically used.

Serial ports ending in 02 and 04 are used for Modbus buses and are named as follows:

- E.g. port ending in 02: Modbus1
- Port ending in 04: Modbus2

Bus settings are configured in software:

- Master/slave
- 1200–115200 bps
- parity N/E/O, 8 bits
- 1-2 stop-bits

19200 8E1 is commonly used.

A-/B+ -terminals withstand incorrect connection to 24 V_{DC}.

Not galvanically isolated.

Contact Information

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