

TVHS20350

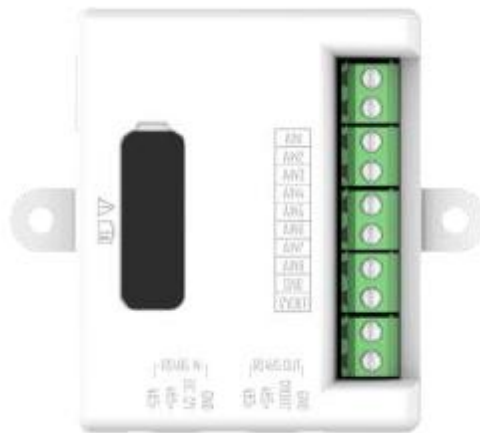


Figure 1: Product image of the TVHS20350 doorbell button extension module

EN Installation instructions

Version 04/2026



EN Introduction

Dear Customer,

Thank you for purchasing this product.

The device complies with the requirements of the following EU directives: EMC Directive 2014/30/EU and RoHS Directive 2011/65/EU. The full text of the EU Declaration of Conformity is available at the following web address: www.abus.com/TVHS20350

To maintain this status and ensure safe operation, you as the user must follow these operating instructions!

Please read the entire user manual before putting the product into operation and observe all operating and safety instructions!

All company names and product names contained herein are trademarks of their respective owners. All rights reserved.

If you have any questions, please contact your specialist installer or specialist dealer!



Disclaimer

These operating instructions have been compiled with the utmost care. Should you nevertheless notice any omissions or inaccuracies, please inform us.
ABUS Security-Center GmbH & Co. KG accepts no liability for technical or typographical errors and reserves the right to make changes to the product and the operating instructions at any time without prior notice.
ABUS Security-Center is not liable for, nor
for any direct or indirect consequential damages arising in connection with the equipment, performance and use of this product. No warranty is given regarding the content of this document.

Important safety instructions



The warranty claim shall lapse in the event of damage caused by failure to observe these operating instructions. We accept no liability for consequential damage!



We accept no liability for damage to property or personal injury caused by improper handling or failure to observe the safety instructions. In such cases, all warranty claims are void!

Dear Customer,
the following safety and hazard warnings are intended not only to protect your health, but also to protect the device. Please read the following points carefully:

- There are no parts inside the product that require maintenance by you. Furthermore, opening or dismantling the product will invalidate the CE marking and the warranty.
- The product may be damaged if dropped from even a low height.

Avoid the following adverse environmental conditions during operation:

- Damp or excessive humidity
- Extreme cold or heat
- Direct sunlight
- Dust or flammable gases, vapours or solvents
- Severe vibrations
- Strong magnetic fields, such as those found near machinery or loudspeakers
- The device must not be installed on unstable surfaces.

General safety instructions:

- Do not leave packaging material lying around carelessly! Plastic film/bags, polystyrene parts, etc. could become dangerous toys for children.
- For safety reasons, the device must not be left within the reach of children due to small parts that could be swallowed.
- Please do not insert any objects through the openings into the interior of the device
- Use only the additional equipment/accessories specified by the manufacturer. Do not connect any incompatible products.
- Please observe the safety instructions and operating manuals for the other connected devices.
- Before use, check the appliance for damage; if any is found, do not use the appliance!
- Observe the operating voltage limits specified in the technical data. Higher voltages can destroy the device and endanger your safety (electric shock).



When installing the device in an existing video surveillance system, ensure that all devices are disconnected from the mains and low-voltage circuits.



If in doubt, do not attempt to carry out the assembly, installation or wiring yourself; leave this to a qualified professional. Improper or amateurish work on the mains supply or on domestic electrical installations poses a danger not only to yourself but also to others. Wire the installations so that mains and low-voltage circuits are always kept separate and are not connected at any point, nor can they become connected

Table of Contents

1.	INTENDED USE	5
2.	EXPLANATION OF SYMBOLS.....	5
3.	CONNECTIONS AND FUNCTIONS	6
3.1	POWER SUPPLY	6
3.2	CONNECTIONS AND CONTROLS	6
3.3	ADDRESSING DEVICES ON THE RS-485 BUS	7
3.4	CONNECTION TO MODUVIS (TVHS2XXXX)	8
3.5	CONNECTION OF EXTERNAL DOORBELL BUTTONS.....	9
4.	MAINTENANCE AND CLEANING	10
4.1	FUNCTIONAL TEST.....	10
4.2	CLEANING	10
5.	DISPOSAL.....	10

1. Intended use

The doorbell button interface, when used in conjunction with a Moduvis video module, is designed to connect existing doorbell buttons to the Moduvis door intercom system. Up to 8 external doorbell buttons can be connected per module. Up to 6 modules can be daisy-chained. Installation must take place in a weather-protected area.



Any use other than that described above may result in damage to the product and may also pose further risks. Any other use is not in accordance with the intended purpose and will result in the loss of the warranty; all liability is excluded. This also applies if modifications and/or alterations have been made to the product. Please read the installation instructions thoroughly and carefully before putting the product into operation. The installation instructions contain important information regarding assembly and operation.

2. Key to symbols



The symbol showing a lightning bolt inside a triangle is used to indicate a risk to , e.g. from electric shock.

An exclamation mark inside a triangle indicates important information in this user manual that must be observed.



This symbol appears when special tips and instructions regarding operation are provided.



3. Connections and functions

3.1 Power supply

Power is supplied via the 4-pin RS-485 connection on the video module.

3.2 Connections and controls

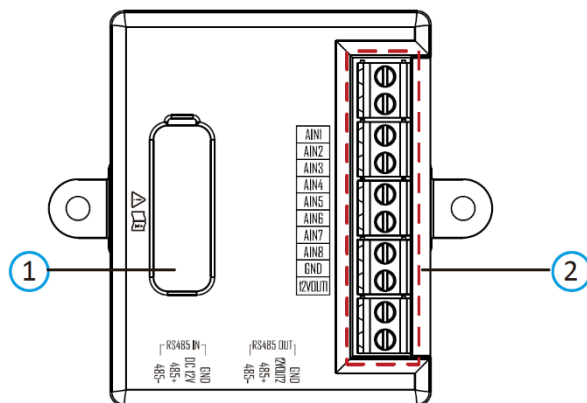


Figure 2: Diagram of DIP switches and button inputs

- 1: DIP switch for the RS-485 bus address
- 2: Inputs 1–8 for doorbell buttons and a 12 VDC voltage output (max. 0.5 A)

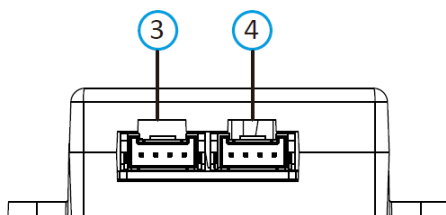


Figure 3: Diagram of RS-485 bus inputs and outputs

- 3: RS-485 bus input (from the video module)
- 4: RS-485 bus output (to the next doorbell button module)

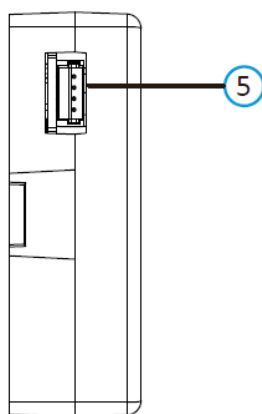


Figure 4: Diagram of the debug interface

- 5: Debug interface (not used in normal operation)

3.3 Addressing devices on the RS-485 bus

Each expansion module on the RS-485 bus must have its own address. Check whether there are any other modules on the bus (e.g. safety module).

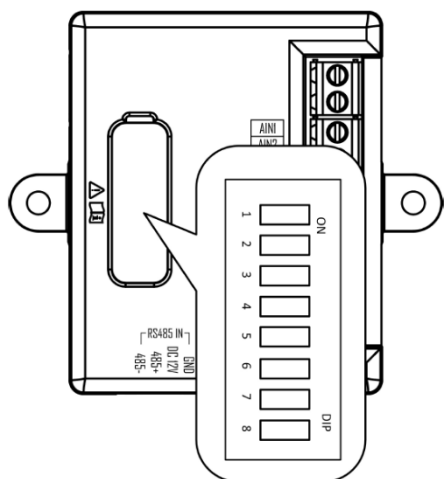


Figure 5: Diagram of the DIP switches for RS-485 bus programming

A maximum of 6 doorbell button expansion modules can be cascaded in series on the RS-485 bus.

Modul address	DIP 1	DIP 2	DIP 3	DIP 4	DIP 5	DIP 6	DIP 7	DIP 8
Modul 1	On	Off	Off	Off	Off	Off	Off	Off
Modul 2	Off	On	Off	Off	Off	Off	Off	Off
Modul 3	On	On	Off	Off	Off	Off	Off	Off
Modul 4	Off	Off	On	Off	Off	Off	Off	Off
Modul 5	On	Off	On	Off	Off	Off	Off	Off
Modul 6	Off	On	On	Off	Off	Off	Off	Off

3.4 Connection to Moduviz (TVHS2XXXX)

The modules are connected to each other using the cables supplied (4-pin, white connectors on both ends). When using a doorbell button expansion module, a single cable from the video module to the expansion module is sufficient.

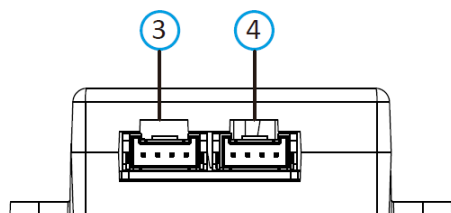


Figure 3: Diagram of RS-485 bus inputs and outputs

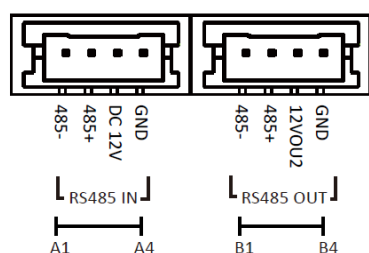


Figure 6: Pin assignment of RS-485 input and output

- 3: RS-485 bus input (coming from the video module)
- 4: RS-485 bus output (to the next doorbell button module)

Diagram:

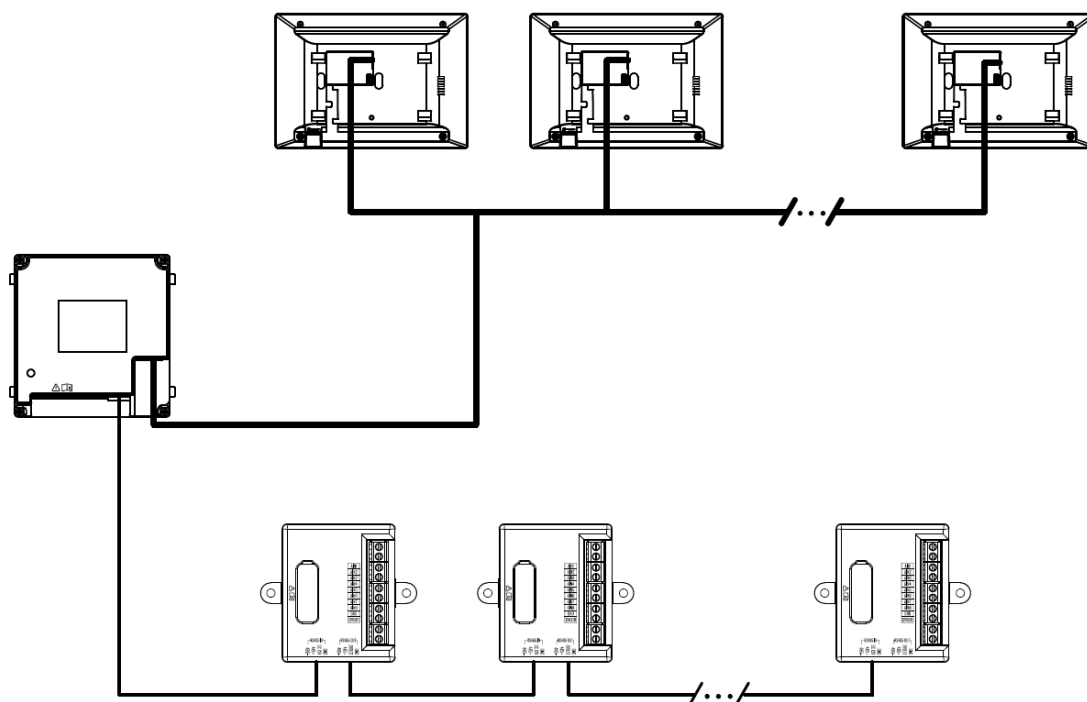


Figure 7: System overview: video module, indoor stations (monitors) and doorbell button extension modules

3.5 Connecting the external doorbell buttons

An external doorbell button is connected, for example, via the AIN1 input and GND (ground).

If a doorbell button light is present (note: 12 VDC only; please observe the total current consumption of 0.5 A), this can be powered via the voltage output (12VOUT1, GND).

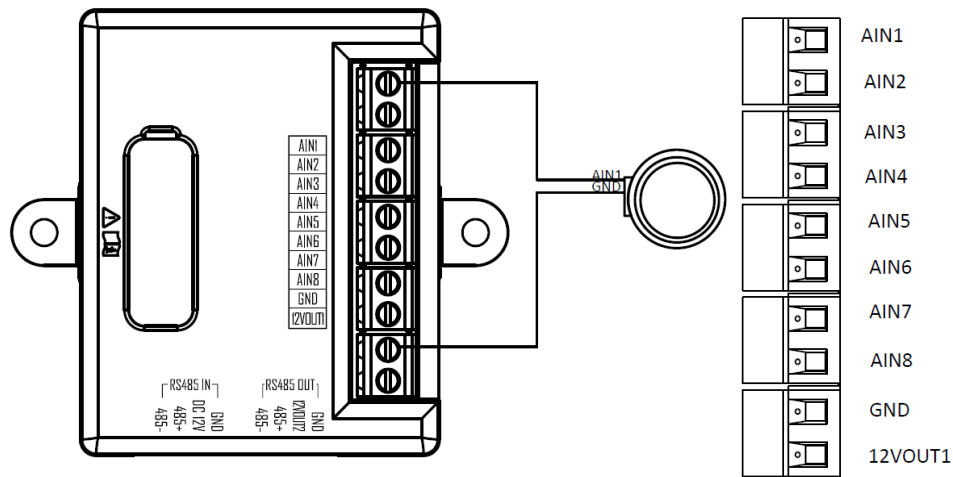


Figure 8: Pin assignment of the button inputs

4. Maintenance and cleaning

4.1 Functional test

Regularly check the technical safety of the product, e.g. for damage to the housing.

If it is likely that safe operation is no longer possible, the product must be taken out of service and secured against unintentional operation.

It must be assumed that safe operation is no longer possible if

- the device shows visible damage
- the device no longer functions
- it has been stored for a prolonged period under unfavourable conditions
- the device has been subjected to stress during transport



Please note:

The product requires no maintenance on your part. There are no components inside the product that you need to check or maintain – never open it.

4.2 Cleaning

Clean the product with a clean, dry cloth. For heavier soiling, the cloth may be lightly dampened with lukewarm water.



Ensure that no liquids get inside the device, as this will destroy the device. Do not use chemical cleaners, as these could damage the surface of the housing.

5. Disposal



Appliances marked in this way must not be disposed of with household waste. At the end of its service life, please dispose of the product in accordance with the applicable legal regulations.

Please contact your retailer or dispose of the products via your local collection point for electronic waste.