

# GRS 3105



## interface adapter RS232 - GMH3xxx for 5 devices

### General information:

The electrically isolated interface adapter GRS3105 allows direct connection of up to 5 devices of the GMH3xxx-series to the serial interface (RS232) of your PC.

### Specification:

**Supply voltage:** 220-240V AC; 50/60Hz

**Power input:** approx. 5W

**Working temperature:** 0 to 50°C

**Storage temperature:** -20 to 70°C

**Relative atmosph. humidity:** 0 to 80 % r.h. (non condensing)

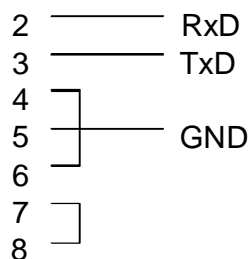
**Dimensions:** 70 x 112 x 45 mm (W x H x D; housing only)

**EMC:** The devices correspond to the essential protection ratings established in the Regulations of the Council for the Approximation of Legislation for the member countries regarding electromagnetic compatibility (89/336/EWG)  
Tested in accordance with EN50081-1 and EN50082-1 for unlimited use in commercial and residential areas.

### RS232:

**Connection:** 9-pin Sub-D-bushing,  
(connection to PC via 1:1-cable)

**Pin assignment:**



### GMH31xx:

**Connection:** 5 x 3.5mm stereo-connector,  
(connection to GMH3xxx via 1:1 cable)

**Connecting line:** VEKA3050: PVC-cable, approx. 1.5 m long

**Processing protocol:** EASYBUS-protocol



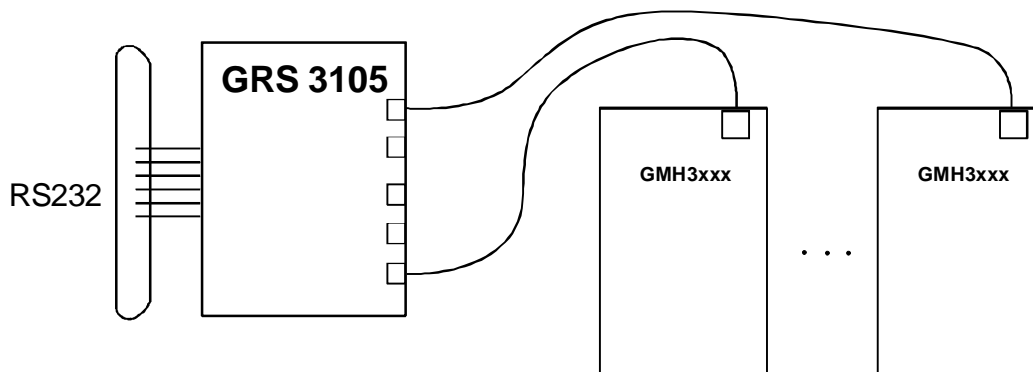
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## **Wiring diagram:**

Connection of up to 5 GMH3xxx devices to the RS232 interface of your PC via one GRS3105.



## **Installation and commissioning:**

Connect the GRS3105 to the RS232-interface of your PC.

Use VEKA3105 to connect the required GMH devices to the GRS3105 and make sure that different basic addresses are set for the various GMH devices.

Then, connect the power pack for the GRS3105 device to a mains voltage of 220 - 240 VAC.

If the interface converter GRS3105 is not handled properly, the converter itself or the devices connected may be subject to damage.

In such a case we do not assume any warranty claims!

The manufacturer shall not be liable for any damage to other connected devices caused by the use of the GRS3105.

## **Software :**

- EBS9M: Windows-software for data display and/or data acquisition (recorder) of the measuring values determined by the GMH3xxx devices.
- GSOFT3050: Windows-software for the display of the measuring values and/or read out of logger data for devices with logger functions.
- GMH3xxx.dll: Windows-functional library. Allows interface communications with devices of the GMH3xxx-series in programs written by the user.

## **⚠ Safety advice:**

This device has been designed and tested in accordance with the safety regulations for electronic devices. However, its trouble-free operation and reliability cannot be guaranteed unless the standard safety measures and special safety advises given in this manual will be adhered to when using the device.

1. Trouble-free operation and reliability of the device can only be guaranteed if it is not subjected to any other climatic conditions than those stated under "Specification".
2. Prior to opening it disconnect device from mains voltage. Make sure that all parts are finger-proof during the installation of the device and its connections .
3. Make sure to observe the standard regulations and safety instructions for electric, heavy and weak current plants, in particular the national safety regulations (e.g. VDE0100).
4. If device is to be connected to other devices (e.g. PC) the circuitry has to be designed most carefully. Internal connection in third party devices (e.g. connection GND and earth) may result in not-permissible voltages.
5. If there is a risk whatsoever involved in running it, the device has to be switched off immediately and to be marked accordingly to avoid re-starting.

Operator safety may be a risk if:

- there is visible damage to the device
- the device is not working as specified
- the device has been stored under unsuitable conditions for a longer time.

In case of doubt, please return device to manufacturer for repair or maintenance.