

IEEE - 488 - Interface  
Einschub  
H0880

Handbuch / Manual

English



## Important hints

The test instruments of the HAMEG Series HM8100 have all been designed to permit their use in automated testing environments. In order to connect them to an IEEE488 bus, the interface H088 (option) is required. Series HM8100 instruments equipped with the IEEE488 bus interface comply with the stipulations of the IEC-625-1 and IEEE-488 standards. If the H0880 interface is ordered together with the a HM 81 .. instrument, it is installed within it at the factory. The H0880 interface is also available as a separate option for retrofitting purposes at a later time.

### Security

This instrument has been designed and tested in accordance with IEC Publication 1010-1, Safety requirements for electrical equipment for measurement, control, and laboratory use. It corresponds as well to the the CENELEC regulations EN 61010-1. All case and chassis parts are connected to the safety earth conductor. Corresponding to Safety Class 1 regulations (three-conductor AC power cable).

### Do not disconnect the safety ground either inside or outside of the instrument!

The instrument must be disconnected and secured against unintentional operation if there is any suggestion that safe operation is not possible.

#### This may occur:

- if the instrument shows visible damage,
- if the instrument has loose parts.
- if the instrument does not function,
- after long storage under unfavourable circumstances (e.g. outdoors or in moist environments).

When removing or replacing the metal case, the instrument must be completely disconnected from the mains supply.

### Warranty and Repair

HAMEG instruments are subject to a strict quality control. All instruments are burned in for 10 hrs prior to shipment. Almost all early failures are

detected by intermittent operation. After burn-in a thorough test of all functions and of quality is run, all specifications and operating modes are checked.

In case of claims during the two years warranty period please contact the dealer from whom you purchased your HAMEG instrument. Customers from the Federal Republic of Germany may directly contact HAMEG for warranty processing in order to speed up the procedure.

The proceeding of repairs during the warranty period is subject to our terms of warranty which are available on our web-site (<http://www.hameg.com>). Even after expiry of the warranty period please do not hesitate to contact our HAMEG customer service for repairs and spare parts.

#### Return Material Authorization (RMA):

Before sending back your instrument to HAMEG do apply for a RMA number either by fax or on the Internet: <http://www.hameg.de>.

If you do not have suitable packaging for the instrument on hand please contact the HAMAG sales department (Tel.: +49 (0) 6182/800 300, E-mail: [vertrieb@hameg.de](mailto:vertrieb@hameg.de)) to order an empty original cardboard box.

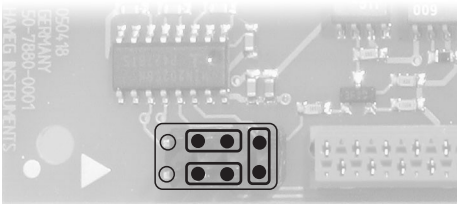
## Insert the Interface

An HM8100 instrument can be retrofitted by the user with the H0880 interface, but we recommend to it it ex factory. The first step is to remove the instrument enclosure. To do so, unscrew the 6 screws on the rear panel of the instrument and take off the plastic back cover; the enclosure can then be pulled off towards the back.

Disconnect the cable, which connects the instrument with the built-in interface, and attach it to the H0880 interface.

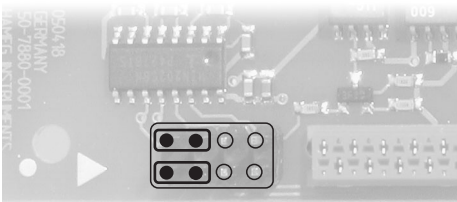
Depending on the instrument's connector use the micromatch connector ② or the MICS connector ③. Remove the built-in interface. According to the instrument, the jumpers ① have to be placed in one of the following ways:

## Jumper positions



### RS-232

Instruments: HM8112-3 and HM7044



### TTL

Instruments: HM8123, HM8134, HM8135, HM8142, HM8130 and HM8131

The interface card is attached using the 2 supplied self-tapping screws. The enclosure is then slid back on. When doing so make sure that the edges of the metal enclosure slide exactly into the grooves of the plastic covers on the front and back. After the rear plastic cover has been replaced and fastened, the unit is again ready for operation.

All data and signal lines are electrically isolated from ground.

When the IEEE-488 cable is unconnected, there is no electrically conductive path to the instrument chassis or the grounded wire of the power supply!

## Address selection

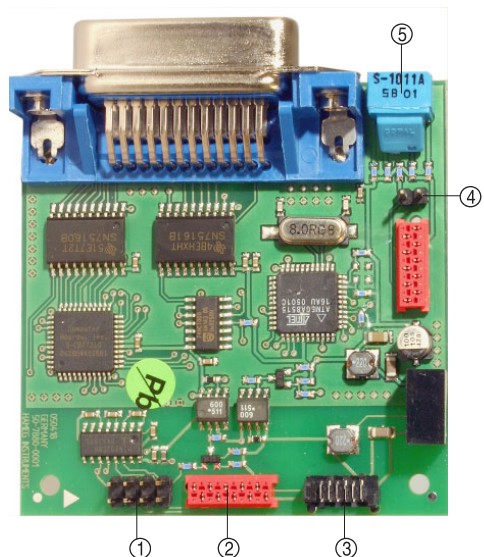
All instruments connected to an IEEE-488 bus must receive unique device addresses.

The address can be chosen by the rotary switch ⑤ next to the IEEE-488 bus interface connector. The address space includes the addresses from 0x1 to 0x1F (1-31 dec.).

It is divided into two ranges. The lower range 0x1 – 0xF (1 – 15) is selected if the jumper ④ is not placed. If the jumper ④ is placed, the upper address range 0x10 – 0x1F (16-31) is selected. You have to add 0xF (16) to the value selected at the rotary switch if the upper address range is chosen.

## Commands

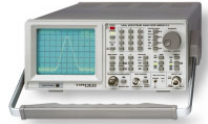
To control the instrument please use the commands included in its manual.



Oscilloscopes



Spektrum Analyzer



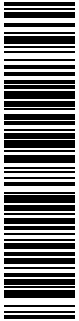
Power Supplies



Modular system  
Series 8000



Programmable Instruments  
Series 8100



46-0880-0010

authorized dealer

[www.hameg.de](http://www.hameg.de)

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