

MBus 1 Module Installation Notes

Safety

General:

The MBus 1 module conforms to the European Standard EN 60950: 2006, Information technology equipment - Safety.

The installation of the MBus 1 module may only be performed by electricians in accordance with the generally recognised good practices and the regulations that are authoritative for setting up communications facilities/end devices.

The MBus 1 module is not suitable for connection to IT systems for the electrical power supply.

Read through this installation information carefully before using the device.

During operation the MBus 1 module must be covered by a cover or housing that provides sufficient contact protection from hazardous voltages.

Disconnection of the power supply circuit:

An easily accessible isolating device for all poles is required in the building power supply circuit. Alternatively, a single-pole isolating device can be used in the phase conductor of the power supply circuit if an unmistakable neutral conductor is integrated in the supply lead. In Germany the isolating device must at least satisfy the requirements of the standard DIN VDE Series 0100.

Installation fuse:

In the building installation an installation fuse according to DIN VDE Series 0100 must be provided which is adapted to the cross-section of the voltage supply line. The additional short-circuit protection must have an isolating power of $I \geq 1500A$.

Transient overvoltages

The MBUS module is an Overvoltage Category III device. If the MBUS module is exposed to foreseeably higher transient overvoltages in the connected state than those of Overvoltage Category III, additional protective measures are required in the installation.

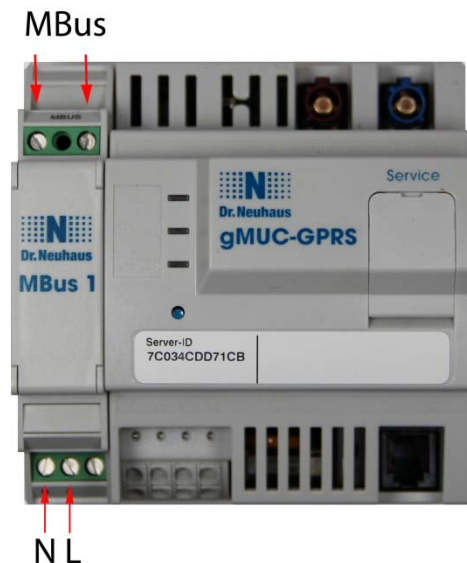
Purpose of use

The MBus 1 module is an interface extension for the connection of wired MBUS meters to the gMUC. (MBUS Master for up to 16 MBus loads in accordance with EN 13757-2)

Radio interference protection

The MBus 1 module is a Class A device. These devices cause radio interference in the residential area; in this case the owner/operator can be requested to take appropriate measures.

Connections



For correct function, the MBus 1 module and gMUC must be installed immediately next to each other.

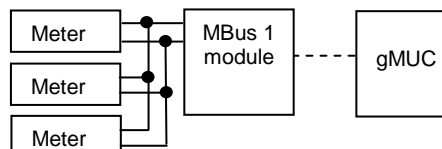
MBUS connection (2 x screw terminal)

Screw terminals for the connection of the MBUS. The centre terminal is not assigned. The polarity is arbitrary.

Optical infrared interface - IrDA



Interface for the use of the MBus 1 module on the gMUC. The two modules must be mounted next to each other on the din rail, so that a direct optical connection is given.



Baud rate 115,000 / 8N1

Power supply connection (2 x screw terminal)

L, N Screw terminals for connection to the 230 Volt network (-20%/+10%) for the power supply.
Lines 0.75mm² to 2.5mm²

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