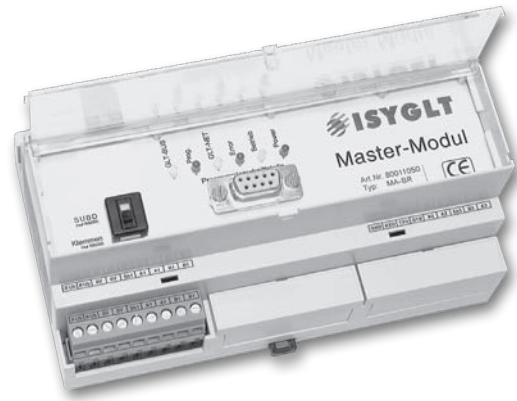


## Master module

### General

The master module controls the data traffic on the ISYGLT BUS and must therefore feature in every system. All the data recorded by the modules (e.g. statuses of the modules' digital and analogue inputs, radio controlled clock times etc.) are transferred to the master via the BUS where they are buffered in the data memory. The master processes the recorded data using a user-specific program and returns, depending on the result of the processed input data, data to the modules' outputs (e.g. analogue and digital outputs). Once again, the data is transferred from the master to the modules via the BUS. The program is created by the user with "ProgrammDesigner" (ProgrammDesigner is the programming software for the ISYGLT BUS system), transferred to the master via a programming interface (RS-232) and saved there in the program memory. The program memory can be



written as often as you like and even keeps its data in the event of an operating voltage failure. Up to 128 modules are operated on the master subnet. You can network several masters with each other using the optional third serial interface (backbone).

### Function displays

- 1 red "power" LED indicates the supply voltage. This LED comes on when supply voltage is applied to the module.
- 1 green flashing "operation" LED indicates the processor function. Steady flashing means "system o.k., however no DCF-77 time received". 2x short flashes followed by a pause means "System o.k. and valid DCF-77 time received".
- 1 red "error" LED indicates an error. This LED indicates an error in the master operating system.
- 1 yellow flashing "GLT Net" LED indicates trouble-free data transfer on the backbone. It is only possible to network several master modules with art. no. 80011150.
- 1 red "prog" LED indicates that programs are being transferred from the PC/modem to the master and vice versa via the programming interface.
- 1 yellow flashing "bus" LED indicates trouble-free data transfer on the subnet.

### Connections

- 2 connections for the subnet (BUS A and B, RS-485)
- 2 connections for the operating voltage (Ub, 0V)
- 1 connection for the second serial interface (e.g. for remote maintenance)
- 1 connection for the third serial interface (optional for networking several master modules only possible with Art. no. 80011150)

### Design

- Light grey plastic casing, can be snapped onto 35 mm DIN rail mounting 9 separating units

### Special function DIP switch

Switch **S1** is located behind the transparent cover on the master module. You have to lift up the cover for configuration.

#### • S1

##### - SUBD setting:

The RS-232 interface for programming the master module is led through the SUBD socket.

##### - Terminal setting:

The RS-232 interface for controlling the connected appliance is led through the GND, RXD and TXD terminals (e. g. modem).

### Technical data

Type	Master Modules MA-BR	MA-3S-BR	SERVER-BR
Art.-Nr.	80011050	80011150	80012050
Application	For small to medium systems of up to 127 modules.	For big installations, for which the master modules are involved in networking (more than 127 modules or several building parts).	Is used for cross linking the master modules. The master module with a third serial interface would be configured as SERVER by software using
Operating voltage	12V bis 35V DC bzw. 12V bis 27V AC		
Power consumption	12V DC 130mA, 24V DC 70mA, 35V DC 60mA 12V AC 140mA, 24V AC 75mA, 27V AC 70mA		
Interface 1	RS-485 for the ISYGLT subnet BUS for communication with modules		
Interface 2	RS-232 or (RS-485 optional) interface for PC/modem connection		
Interface 3	floating RS-485 for the ISYGLT backbone BUS for networking several master modules (only activated with art. no. 80011150.)		
Program memory	Program memory for user program: 24V kByte (EEPROM) programmable  scene memory: 8 kByte extendable optionally to 32 kByte (EEPROM) for light scenes, non volatile		

### Technical data

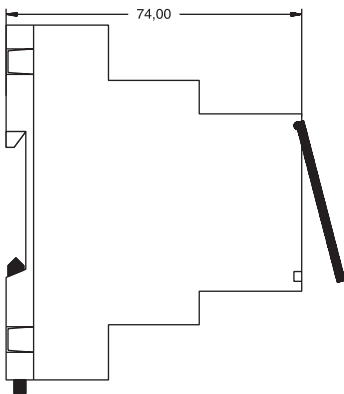
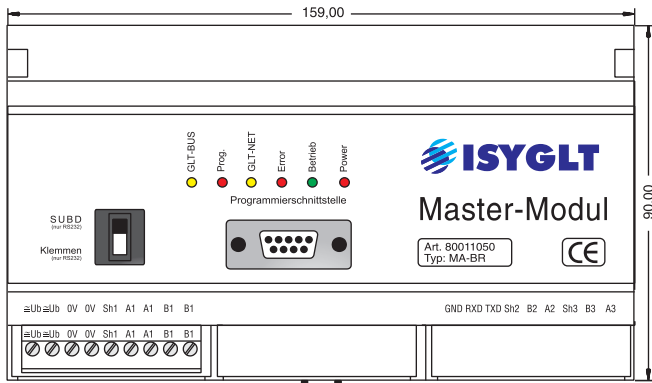
Master modules	Continued
Dimensions	WxHxD 160x90x74mm (9 separating units)
Weight	300 g
Connection	Terminals 2.5 mm <sup>2</sup> plug-in
Operating temperature	-10°C...+50°C
Storage temperature	-25°C...+70°C
Humidity	0...85 % relative humidity, non-condensing
Protection class	IP 30
ESD immunity	Category 3 according to IEC-1000-4-2 (4 kV static)
EMC immunity	Use in typical industrial environment Category 3 according to IEC-1000-4-4 (Test was carried out within a whole system)
CE mark	yes

### Terminal assignment

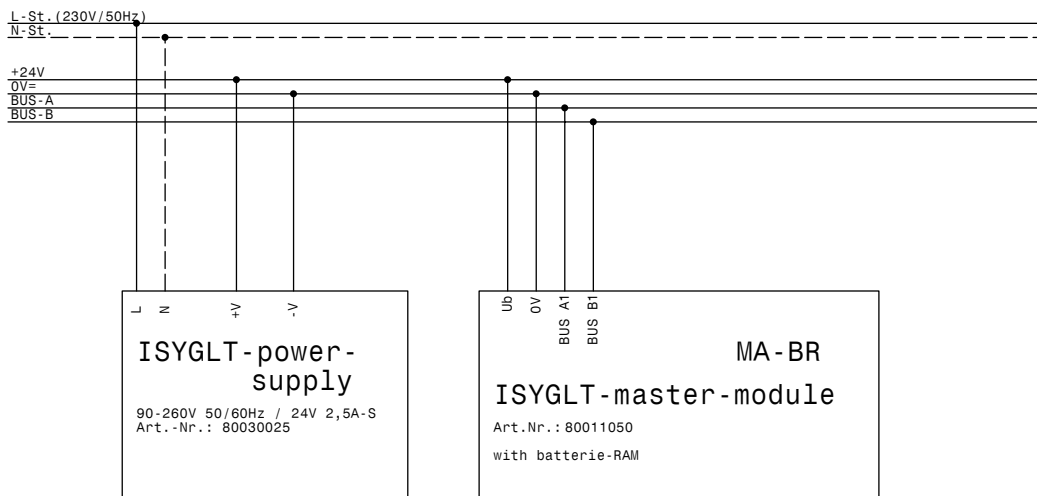
Terminals	Left
Ub	Operating voltage
Ub	Operating voltage
0V	0V operating voltage
0V	0V operating voltage
Sh.1	Remains free
A 1	Subnet (BUS A, RS-485)
A 1	Subnet (BUS A, RS-485)
B 1	Subnet (BUS B, RS-485)
B 1	Subnet (BUS B, RS-485)

Terminals	Right
GND	Programming interface (RS-232) ground
RxD	Programming interface (RS-232) RxD receive path
TxD	Programming interface (RS-232), read data TxD send path, send data
DTR	Programming interface (RS-232) DTR control line
B 2	Programming interface (BUS B, RS-485 optional)
A 2	Programming interface (BUS A, RS-485 optional)
Sh.3	Remains free
B 3	Backbone (BUS B, RS-485) (is only activated with art. no. 80011150.)
A 3	Backbone (BUS A, RS-485) (is only activated with art. no. 80011150.)

## View



## Wiring diagram



### Wiring diagram

