



# EIBWächter

The invisible guardian for your EIB installation.



## Highlights

- Protects your EIB system from unwanted programming access
- Alarming
- Can be used as an ACK device
- No physical address needed

## The different EIB-Wächter types:

To program a bus device, a point-to-point connection has to get established (physical telegrams), to „open“ the device and send the physical programming telegrams.

### EIBWächter type "Highest security"

The „Highest security“ EIBWächter will prevent any physical telegrams on the EIB. That way it is impossible to change anything in any device.

### EIBWächter type "High security"

Some physical telegrams will be allowed on the bus: the reading telegrams. Therefore devices can get read or polled, but still no physical write-telegrams are possible.

### EIBWächter type "User defined"

It is having the same functionality as the „High security“ device, but you can activate/deactivate this type of EIBWächter by sending special telegrams (using the EIBDoktor). The telegrams will be send to the broadcast address 15/7/255, inside the telegram is the serial number of the EIBWächter and a special security code, using an RSA algorithm: even if somebody else is able to protocol the telegrams to deactivate the EIBWächter, sending them later will be useless, since the telegrams are only correct at a special time. Trying to send the deactivation telegram on a later time will have no effect at all.

## Requirements for all EIBWächter devices:

You have to install an EIBWächter into every line you want to protect: security on the „backbone“ will not grant security in lower lines most times.

**Alarming:** You can define an „Alarming group address“, the EIBWächter will send a telegram to this address each time somebody is trying to do an illegal access. This telegram can be used to display a warning inside a visualization software, for example.

**ACK functionality:** The EIBWächter also acts as an „ACK device“, which means that it will acknowledge all groupaddress-telegrams, and prevents unnecessary busload this way. This will not affect the function of the EIB, damaged telegrams will still get repeated.

**No physical address:** The EIBWächter acts as an „invisible“ device, it will not get used inside the ETS project. The ETS is also not able to detect the EIBWächter. Therefore the EIBWächter does not need a physical address.

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