



**Automations- und  
Steuerungstechnik GmbH**

## **Product description**

# **EIB Ack(nowledge) device**



**Reduces the busload**

**Order number: E001-H021000**



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## **Highlights EIB-Ack-Device**

- Reduces busload significantly
- Prevents unreceipted telegrams to unknown
- Mountable directly
- No parametric necessary
- Uses no physical address

## **Package content**

- EIB-Ackdevice, ready for mounting



## **Functionality of the Ack-device**

Repeats of telegrams occur in EIB-installations, where you have to work with open filter tables because of a installed visualization. So telegrams are directed into lines, where no device is answering to a telegram with a special group address. These telegrams are automatically repeated three times by the line couplers.

The Ack-device sends an Ack for each groupaddress-telegram which is sent over the bus. So not wanted repeats of telegrams are prohibited. The security of the EIB is not influenced, because disturbed telegrams will still be repeated, because for example a "Nack" overwrites a sent "Ack". To reduce the busload in a whole EIB-world, in each line an Ack-device has to be installed.

## **Results of high busload**

High busload on the EIB can result in non-predictable consequences. Standard serial bus couplers already lose telegrams if the busload is higher than 50 percent. For example it can happen, that a light is switched on over a push-button but the connected visualization still shows that there is no light on. At high busload there may be errors more often, so that telegrams are repeated and the busload rises and more and more telegrams aren't transmitted over the serial bus coupler to the visualization. A result may be that the visualization displays a completely different process view to the reality.

Low busload results in a well working EIB. So a low busload should be the highest priority of an EIB programmer. The Ack-device helps you reducing the busload.