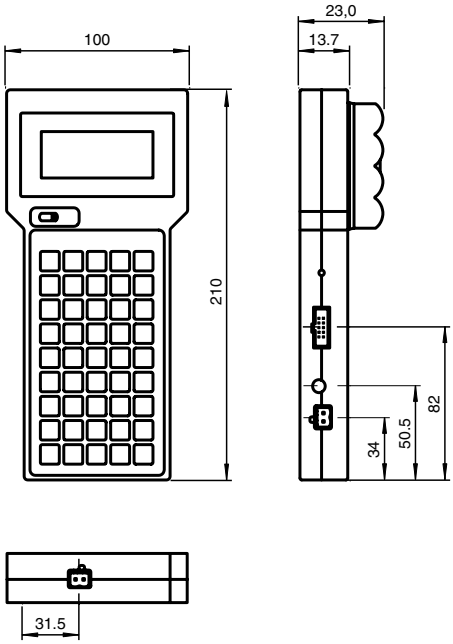
Dimensions



Technical data

Indicators/operating means	
Display	LC display, 4-line for every 16 characters
Keyboard	membrane keys, 45 keys
Electrical specifications	
Power supply	4.8-6 V, 0.5 Ah; cell or battery operating time with battery programming: 8 h
Ambient conditions	
Ambient temperature	0 ... 55 °C (273 ... 328 K)
Storage temperature	-20 ... 55 °C (253 ... 328 K)
Mechanical specifications	
Protection degree	IP52 according to EN 60529
Mass	approx. 700 g (including battery)

Model Number

VAP-HH2

Handheld programming device

Features

- Bus monitor
- Simulation of an additional slave
- Slave programming
- Master simulation
- LC display error evaluation

Documentation

The documentation includes manuals in German and English. It is available on the Internet and in printed form as a CD-ROM on request.

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Notes

VAP-HH2 is a compact servicing and programming unit for the commissioning and servicing of AS-Interface networks. These functions are intended to assist in providing exact information on the state of the bus as well as significant electrical and communications engineering information and to support and speed up maintenance and troubleshooting. The VAP-HH2 is designed as a compact hand-held terminal, which can be connected anywhere on an AS-Interface when battery-operated. In the case of continuous operation for the indication and data collection for error statistics, the device can be supplied with power by the AS-Interface.

The four operating modes
- Bus monitoring (analysis)
- Simulation of slave
- Simulation of master
- Programming

guarantee convenient management.

VAP-HH2 functions as a **bus monitor**; all activities of the master and the slaves are registered and evaluated. These include the recording of bus telegrams over an certain period of time as well as the registration of error statistics. Furthermore, VAP-HH2 can be used to check a switched-off bus for electrical short circuits or maladjustments.
In the **Simulation of slave** operating mode, VAP-HH2 behaves like an additional slave on the bus while the operation address is freely assignable.
In the **Simulation of master** operating mode, VAP-HH2 generates the entire cycle of all master calls, but only permits the electrical connection of one slave to check its parameter assignment, configuration and address configuration.
In the **Programming** operating mode, the slave is connected to VAP-HH2. The operation address can be output, displayed and verified.
In addition, VAP-HH2 is provided with self-test functions which monitor transmission and receipt via the devices own AS-Interface interface in order to exclude internal errors (hardware).

Notes

Bus monitoring
- Passive on the bus
- Overview of bus activities
- Display of master messages with associated slave message, address-selective
- Display of a specific cycle with all messages
- Display of error statistics
- Measurement of bus and power supply voltage

Slave-Simulation
- Setting of the unique operating address
- Specification of responses to specific master requests
- Correct reaction to the request "Delete operating address"
- Correct reaction and addressing on "Address request"

Master-Simulation
- Determination of the current operating address of a slave
- Automatic test of requests and display of the responses
- Generation of individual test messages
- Replacement of the bus master in order to test the slave and verify its parameters, configuration and addressing.

Slave programming
- Display of operating address
- Setting new operating addresses
- Error displays

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