

# Control units

The various functions of the control units in vehicles of the police, fire brigade and rescue services must be as fast, safe and easy to operate as possible. The most important functions can all be accessed using the fast access buttons. Whether mounting control unit or hand-held control unit, we offer a range of options for a variety of applications.



**BE 300 control units**



**BE 200 control unit**



**BE 600 control unit**



Example picture

**Universal control units**



**Hand-held control unit HBE 300**



**Hand-held control unit HBE Profi**



**Rod microphone**



**BE 304 control unit**

The HBE 300 is able to control both CAN-compatible warning systems as well as analogue supplements. In addition to models for “fire brigade/emergency doctor”, we also offer models that are specially designed for the requirements of the police sector. Additionally, there are universal models which are available for the fire service and police sector.



## PRODUCT FEATURES:

- CANopen Standard 447
- 8 fast access buttons
- 4 menu buttons
- buttons with location and activation lighting
- integrated microphone for public address
- high-contrast wide angle display
- easy to operate thanks to large buttons
- convenient menu navigation with self-explanatory icons
- analogue outputs for additional functions
- can be used in any vehicle (even without a 447 gateway)
- various models available

### Homologation: (Germany and international) HBE 300











EMC according to ECE-R 10:	(E) 10R-05 6932
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### Technical data





Weight:	170 g
Dimensions:	66 x 124 x 24 mm (WxHxD)
Voltage:	12 V / 24 V multi voltage

# HBE 300

## Examples:

Functions of the fast access buttons (HBE 300)	
	Simultaneously switches on the main beacons, 3rd beacon and IR-flasher and if installed, the take down flash off. Night dimming is activated during operation by pressing and holding the button (> 3 sec.).
	Simultaneously switches on the main beacons, 3rd beacon and IR-flasher and if installed, the take down flash off. A tone sequence cycle can be triggered with the horn if the ignition is switched on.
	Simultaneously switches on the main beacons, front flasher, 3rd beacon and IR-flasher and if installed, the take down flash off. Press again to switch off the tone sequence.
	Activates/deactivates the power flash when the main beacons are activated (locks with the main beacons)
	Activates/deactivates the front flasher. (locks with the main beacons)
	Changes the tone sequence signal type. A quiet tone sequence cycle is triggered by pressing and holding the button if the main beacons are activated and the ignition is switched on (Kl.15). (> 3 sec.)
	Activates/deactivates the rear warning system.
	Switches on the takedown display with "STOP POLICE" and the red take down flash. The red take down flash is not switched on when the main beacons are activated.
	Triggers the "acoustic stop signal" cycle as well as the red take down flash, when the ignition and the takedown display are on ("STOP POLICE") and the blue light is off.
	Activates/deactivates the rear take down display signal with "PLEASE FOLLOW".



Functions of the menu navigation buttons (HBE 300)	
	Navigate upwards through menu items and functions
	Navigate downwards through menu items and functions
	Select and choose menu items/functions
	Return to the previous menu item level. By holding and pressing this button, you also switch off all active functions.

The new control unit BE 304 impresses with a compact housing and various mounting options. The raised buttons with a clear pressure point provide a very good surface feel. This control unit is optimally suited for undercover police operations as well as for other emergency and work vehicles with a basic set of functions. Due to its versatile functional options the BE 304 can be optimally configured for any application area.

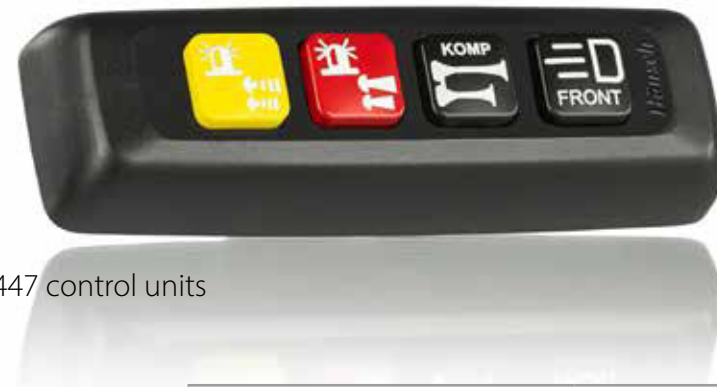


## PRODUCT BENEFITS:

- compact plastic housing
- 4 buttons for controlling CAN447 products
- location and activation lighting
- horizontal or vertical positioning possible (4x1 or 1x4)
- combination of various control units or as an additional keypad for other CAN447 control units
- 4-core connection cable via cable harness to CAN447 components
- surface mounting variation; rack mounting variation on request
- including analogue inputs and outputs

## APPLICATION AREAS:

- vehicles with reduced options of warning functions
- undercover police operation
- simple firefighter vehicles
- amber application: construction vehicles, commercial vehicles, airports
- replacement for single switches in CAN447 systems



<i>Approvals: (Germany and international)</i>	
EMC according to ECE-R 10:	Ⓔ 10R-05 8548

<i>Technical specifications:</i>	
Weight:	45 g
Dimensions:	84 x 26 x 15,5 mm (WxHxD)
Voltage:	12 V / 24 V

# BE 300 control units

The various models in the BE 300 series offer a high degree of flexibility. In addition to a serial interface that meets the CAN447 standard, the various models also offer analogue outputs to control products that are not CAN447-compatible.

## Overview of options



# BE 300 control units

## BE 308M



### PRODUCT FEATURES:

- menu-guided control unit with 8 additional function buttons
- including analogue in- and outputs (4x inputs and 10x outputs)
- selection of various messages for the full matrix
- control of various light options (e.g. convoy, alley lights, etc.)
- fitting dimensions for DIN vehicle radio shaft
- operation of the voice announcement options (e.g. selection of the sound source, volume control, when ASM is mounted, etc.)

**Homologation: (Germany and international) control units BE 300**

EMC according to ECE-R 10:

(E) 10R-04 6703

## BE 314



### PRODUCT FEATURES:

- 14 function buttons for operating CAN447-compatible products
- including analogue in- and outputs (4x inputs and 10x outputs)
- fitting dimensions for DIN vehicle radio shaft
- can be used with or without vehicle gateway
- various button assignments can be selected
- optimal for controlling DBS 4000 and DBS 5000

**Technical data (BE 308 | BE 308 M | BE 314)**

Weight:	160 g
Dimensions:	180 x 52 x 24 mm (WxHxD)
Voltage:	12 V / 24 V



# BE 300 control units

## BE 308



### PRODUCT FEATURES:

- 8 function keys for operating CAN447-compatible products
- including analogue in- and outputs (4x inputs and 10x outputs)
- small housing dimensions
- can be used with or without vehicle gateway
- various button assignments can be selected
- cover for DIN vehicle radio shaft available as an option

*Homologation: (Germany and international) control units BE 300*

EMC according to ECE-R 10:

(E1)10R-04 6703

## BE 300M



### PRODUCT FEATURES:

- purely menu-guided control unit
- exclusively for operating a CAN447 full matrix
- selection of various messages for the full matrix
- cover for DIN vehicle radio shaft available as an option

*Technical data (BE 308 & BE 300M)*

Weight:	140 g
Dimensions:	93 x 52 x 24 mm (WxHxD)
Voltage:	12 V / 24 V

# BE 200 control unit

The BE 200 control unit ensures simple and safe operation of the warning systems. A total of 6 buttons allow the operation of the basic and other additional functions and thus offers maximum flexibility.



<b>Homologation: (Germany and international) control unit 200</b>	
EMC according to 72/245/EWG:	e1 03 3477

<b>Technical data</b>	
Weight:	180 g
Dimensions:	76 x 41.5 x 32.5 mm (WxHxD)
Voltage:	12 V / 24 V

## PRODUCT FEATURES:

- 6 buttons to control the functions
- all buttons are with backlighting and have activation control
- free buttons, partly with possibility of locking with beacons
- three control lights for function monitoring
- small housing dimensions
- more predefined variations already available
- cover for DIN vehicle radio shaft available as an option



# BE 600 control unit

The BE 600 control unit ensures reliable and easy operation of the warning systems and provides maximum flexibility. Through a total of 10 buttons operation of the basic functions and other additional functions is provided.



## PRODUCT FEATURES:

- 10 buttons to control the functions
- public address, playback, connection of incoming radio signals to the exterior loudspeakers with adjustable volume
- all buttons have backlighting and activation control
- free buttons, partly with option to lock the beacons
- four control lights for function monitoring
- acoustic control signal for take down display (police version)
- more predefined variations already available
- fitting dimensions for DIN vehicle radio shaft

**Homologation: (Germany and international) control units BE 600**

EMC according to 72/245/EWG: e1 03 3478

<i>Technical data</i>	
Weight:	210 g
Dimensions:	170 x 41.5 x 32.5 mm (WxHxD)
Voltage:	12 V / 24 V

# Hand-held control unit HBE Profi/Rod microphone H2

The hand-held control unit HBE Profi is used to operate the tone sequence system and other analogue products.



## PRODUCT FEATURES:

- simple handling and uncomplicated operation
- easy installation
- complete control of the warning system with beacons, including function monitoring, tone sequence signal and urban/rural switching (or Yelp/Wail/Hilo switching) as well as command speaking with adjustable volume

### Homologation: (Germany and international) HBE Profi

EMC according to 72/245/EWG: 

e1	03 5235
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### Technical data

Dimensions:	102.5 x 50 x 26.5 mm (WxHxD)
Voltage:	12 V / 24 V

The rod microphone H2 is used for voice announcements with a Hänsch tone sequence amplifier, a Hänsch voice amplifier or in combination with the Hänsch ASM 2.

The new development impresses with improved speech quality and a higher volume control range. Back coupling is reduced immensely. The microphone can be used from any angle and no longer has to be brought up to the lips for public address. While developing the rod microphone H2, we also focused on a cleaner PPT pressure point.



## PRODUCT FEATURES:

- command speaking via push-to-talk button
- volume control
- incl. holder for the installation in the vehicle
- connection via standard cable harness TFV 6x4 (CAN447/analogue) or via additional connecting cable directly at the TFV 6x4 CAN447 respectively at the audio switching module (ASM)
- operating voltage: 12 V (in combination with TFV 6x4/ASM also available in a 24 V power supply network)

### Homologation: (Germany and international) Rod microphone H2

EMV nach ECE-R 10 

E1	10R-05 8887
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# Universal control unit

A selection of our control units is also available as universal version. These are freely configurable and can therefore serve any purpose. Differences are only made between the application areas "fire/emergency doctor" and "police".

The universal control units offer all the advantages of our standard control units. The buttons can be individually assigned and interlocked with the respective functions. Analogue outputs can be added.

It is also possible to choose favourites from a large selection of pre-programmed, application-specific texts in order to show them quickly and easily in the takedown display.

## Variations of BE 308 Universal:



- BE 308 P Universal, 12 V
- BE 308 FN Universal, 12 V or 24 V

Technical data	
Weight:	140 g
Dimensions:	93 x 52 x 24 mm (WxHxD)

For more information, please contact our customer service.

## Variations of BE 308 M Universal:



- BE 308 M - P Universal, 12 V

Homologation: (Germany and international) control units BE 300	
EMC according to ECE-R 10:	Ⓔ 10R-04 6703

Technical data	
Weight:	160 g
Dimensions:	180 x 52 x 24 mm (WxHxD)

## Variations of BE 314 Universal:



Fig. FN

- BE 314 P Universal, 12 V
- BE 314 P Universal, 12 V

A selection of buttons/button laminations is included, more button caps available. Except for the basic buttons, all others are freely exchangeable and configurable.

<b>Homologation: (Germany and international) control units BE 300</b>	
EMC according to ECE-R 10:	Ⓔ 10R-04 6703

<b>Technical data</b>	
Weight:	160 g
Dimensions:	180 x 52 x 24 mm (WxHxD)

## Variations of HBE 300 Universal:



Fig. FN

- HBE 300 P Universal 1, 12 V
- HBE 300 FN Universal, 12 V
- HBE 300 FN Universal, 24 V

<b>Homologation: (Germany and international) HBE 300</b>	
EMC according to ECE-R 10:	Ⓔ 10R-05 6932

<b>Technical data</b>	
Weight:	170 g
Dimensions:	66 x 124 x 24 mm (WxHxD)