



FOR operation in explosive-prone areas radios must meet specific safety requirements. The BHR 21 IS is certified for use in areas where explosive materials (gases, dust) are to be expected such as the oil and gas industry, refineries and refuelling stations, gasworks and the petrochemical industry. Apart from a very high degree of safety the BHR 21 IS also offers exceptional performance. This radio has been designed for professional radio networks and complies with the TETRA Standard. The user is offered the full extent of the TETRA features.



## ATEX-TETRA Hand-held Radio BHR 21 IS

For working in hazardous areas according to II 2 G EEx ib IIC T4 & II 3 D T130°C IP54

Performance features and technical details

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General	
dimensions (H x W x D):	145 x 60 x 33 mm
weight:	approximately 325 g incl. battery pack
battery-capacity:	3.000 mAh Li-Ion 3,7 V Akku (rechargeable)
operating time:	up to 14 hrs (5% TX / 35% RX / 60% idle)
special feature:	changing battery in endangered environment is possible ATEX grade: EExib IIC T4, robust impact resistant housing
Handling	
display:	1,8" RGB Colour-Display, 120x160 Pixel, 4096 Colours
keypad:	lighted, 12 alphanumeric and 6 function keys, 4 sidewise function keys (1x free choice programmable), 2 rotary-switches (group select and volume select), emergency button on top side
circuit points:	audio-interface on top side, I/O-Connector for data transmission and battery recharge, recharging female on bottom side, additionally antenna female for car equipment
illuminated ring:	LED on top side with different colours for different status
display languages:	German, English, French, Spanish, Dutch, Russian, Greek
groups TMO/DMO:	preprogrammed groups and multigroups
phonebook:	preassigned telephone numbers and names
status calls/text:	alphanumeric generation of short data telegrams via key-pad (predefined or manual status)
Environmental conditions	
operating temperature:	From -20°C to +55°C
storage/ transport temperature:	From -20°C to +60°C
protection class:	IP 54
Radio applications	
wave band:	360 – 380 / 380 – 400 MHz; 380 – 400 / 406 – 430 MHz; 406 – 430 / 450 – 470 MHz
operating mode:	trunked mode (TMO), direkt mode (DMO)
transmitting power:	1 Watt (class 4), automatic transmission power control
receiving class:	A (standard: TU 50, HT 200)
speech mode:	simplex (trunking mode), duplex (phone mode)
Upgrading/ Extention	
position and movement sensor	
TETRA Air Encryption Class 1/ Class 2	
Dead-Man-Switch (position related) optional	
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