

20 / 32 FKUH 10 and 20 / 32 FKVH 10 Crane Radio Station with two Keypads



Main features

- Robust crane radio station for stationary or mobile use in industrial environments
- 20 or 32 direct dial keys for parameterization
- 2 external connection inputs for parameterization as required
- VHF or UHF version available
- 110 VAC / 230 VAC power supply
- 2 control outputs for parameterization

INDUSTRONIC crane radio stations allow flexible wireless communication in industrial environments. They are easy to operate, extremely robust and can be easily integrated into an already existing company radio system. They can also communicate with an INDUSTRONIC communication system.

The dynamic microphone and the premium loudspeaker ensure superior quality of the voice transmission and allow clear communication, even at high ambient noise levels.

Design

The 20 / 32 FKUH 10 or 20 / 32 FKVH 10 crane radio station consists of an operating unit (crane operator station) and a radio unit which is separately installed into a housing. The crane operator station comprises two keypads with 20 or 32 direct dial keys and a microphone. The loudspeaker is directly connected at the radio unit.

Depending on the application, the radio station will be either equipped with a radio device for the 70 cm UHF range (1 RMUH 03) or the 2 m VHF range (1 RMVH 03). This radio device can be used in private PMR networks. Prior to commissioning, a license for the use of frequencies must be acquired at the responsible national authority.

Two inputs and two outputs as well as one external AF output are pre-wired at external terminals of the radio station. The inputs can be used for potential-free contacts, e.g. for a foot switch. One connecting output can be used together with an AF output to activate an external amplifier. The second output can be used to switch on a flashing beacon, for example.

Call control and parameterization

Selective call (5-tone sequence selective call) and/or dual-tone multi-frequency signaling can be used for call control. The parameterization is performed by INDUSTRONIC using a standard PC. Parameters will be permanently stored in the crane radio station.

Types

UHF (440 MHz to 470 MHz)	20 FKUH 10	20 direct dial keys
	32 FKUH 10	32 direct dial keys
VHF (146 MHz to 174 MHz)	20 FKVH 10	20 direct dial keys
	32 FKVH 10	32 direct dialing keys

Additional features

- Call storage programmable for each radio unit
- Transmitting power up to 25 W
- Interface to INDUSTRONIC systems
- One audible signal generator and audible signal analyzer can be programmed per key
- Key or connecting input can be programmed with the function "call repeat / talk-back"
- 1 separate AF output

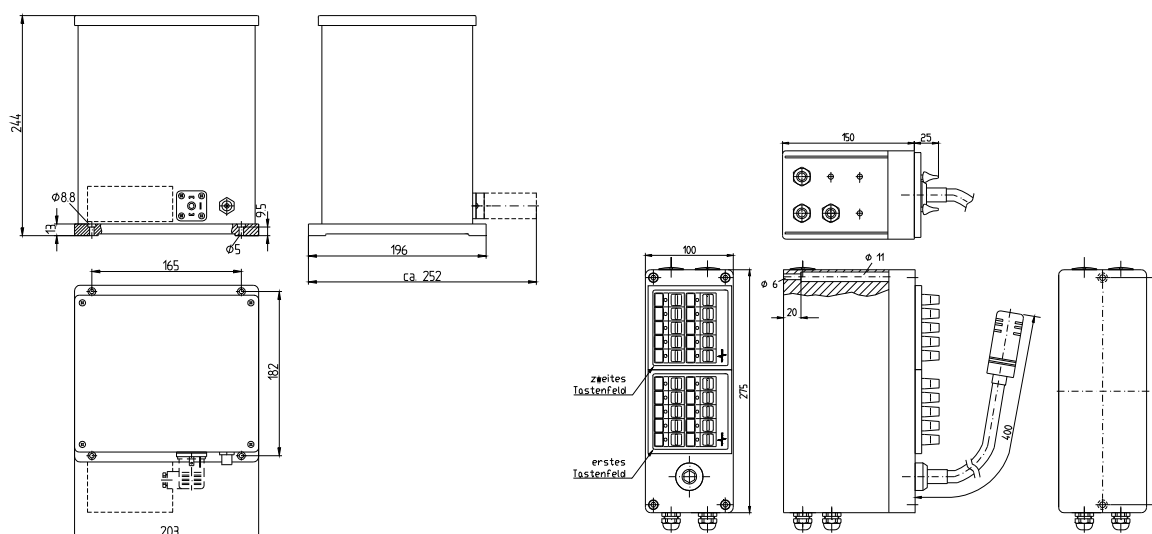


Figure: Dimensional drawing 20 / 32 FKUH 10 respectively 20 / 32 FKVH 10

Mechanical data crane operator station

- Height x width x depth 100 mm x 275 mm x 150 mm (4" x 10 3/4" x 6")
- Housing material Glass fiber reinforced polyester
- Weight approx. 3,6 kg (approx. 8 lb)
- Cable length 8 m (26 1/4 ft)

Mechanical data housing for radio unit

- Height x width x depth 244 mm x 203 mm x 196 mm (9 1/2" x 8" x 7 3/4")
- Housing material Aluminum
- Weight approx. 5 kg (approx. 11 lb)

Mechanical data loudspeaker

- Height x width x depth Ø 133 mm x 133 mm (Ø 5 1/4" x 5 1/4")
- Housing material Aluminum
- Weight approx. 1 kg (approx. 2 1/4 lb)
- Cable length 8 m (26 1/4 ft)

Electrical data

• Operating voltage	110 VAC / 230 VAC
• Microphone	Noise-compensating with dynamic compression
• Microphone amplifier	Amplifier with compressor
• Loudspeaker	max. 6 W / 8 ohm
• Five-tone selective call	ZVEI 1
• Dual-tone multi-frequency	DTMF

Electrical data radio device in radio unit (1 RMUH 03 / 1 RMVH 03)

• Transmitting power	Parametrizable 1 W to 25 W
• Frequency range	UHF: 440 MHz to 470 MHz VHF: 146 MHz to 174 MHz
• Channel spacing	12.5 kHz / 20 kHz / 25 kHz
• Modulation limiting	+/- 2.5 kHz at 12.5 kHz +/- 4 kHz at 20 kHz +/- 5 kHz at 25 kHz
• Receiver sensitivity	<0,3 μ V (12 dB SINAD)
• Intermodulation (ETS)	>65 dB
• Frequency stability	+/- 2,5 PPM
• Antenna impedance	50 ohm
• EU directive	1999/5/EC
• Standards	EN 300086 EN 301489 01/05 EN 60950 EN 300113

Environmental requirements

• Degree of protection	Crane operator station: IP40 Radio device in housing: IP65
• Temperature range	-20 °C to +70 °C (IEC 68-2-1/2) (-4 °F to 158 °F)
• Relative humidity	93 % (IEC 68-2-3)

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