

1 RHU ... / 1 RHV ...

Radio Handheld Transceivers



Main features

- 5-tone selective call and private line preventing interferences by other radio subscribers
- RHU: UHF version (403 to 470 MHz)
- RHV: VHF version (136 to 174 MHz)
- Programmable channel spacing
12.5 kHz / 20 kHz / 25 kHz
- Hands-free operation when used with VOX headset

The handheld transceivers, 1 RHU ... and 1 RHV ... allow flexible wireless communication in an industrial environment. The 1 RHU 02/03 handheld transceivers can be operated with 70 cm (27 1/2") UHF range and the 1 RHV 02/03 within the 2 m (6 1/2 ft) VHF range.

The various types of devices have different ranges of functions. The handheld transceivers, 1 RHU 02 and 1 RHV 02 offer 16 channels with channel selector switch. The handheld transceivers, 1 RHU 03 and 1 RHV 03 are equipped with a display, a keypad and 255 channels with endless channel selector switch.

Overview

1 RHU 02, 1 RHV 02	1 RHU 03, 1 RHV 03
16 channels	255 channels
	14-character display
	Dial keypad
	Battery status indicator

Additional features

- Low weight and ergonomic design
- Transmitting power up to 4 W / 5 W
- Possible limitation of transmission time
- power adjustment: low transmitting power prolongs battery service life, high power increases coverage
- Integration to INDUSTRONIC communication and public address systems

Mechanical data		
	• Height x width x depth (with NiMH standard battery)	137 mm x 57.5 mm x 37.5 mm (5 1/2" x 2 1/4" x 1 1/2")
	• Height x width x depth (with NiMH ultra high battery)	137 mm x 57.5 mm x 40.0 mm (5 1/2" x 2 1/4" x 1 1/2")
	• Weight (with NiMH standard battery)	approx. 420 g (approx. 1 lb)
	• Weight (with NiMH ultra high battery)	approx. 500 g (approx. 1 lb)

Electrical data		
	• Power supply	Battery 7.5 V
	• Frequency range	VHF: 136 to 174 MHz UHF: 403 to 470 MHz
	• Channel spacing	12.5 kHz / 20 kHz / 25 kHz
	• Average battery life at 5/5/90 cycle	at 1 W / 4W
	• NiMH standard battery	8 h to 11 h
	• NiMH ultra high battery	11 h to 14 h
Transmitter	• Transmitting power	VHF: 1 W to 5 W UHF: 1 W to 4 W
	• Modulation limits	+/- 2.5 kHz at 12.5 kHz +/- 4 kHz at 20.0 kHz +/- 5 kHz at 25.0 kHz
	• FM hum and noise	> -40 dB typ.
Receiver	• Rated audio power	0.5 W
	• Sensitivity (12dB SINAD) EIA	0.25 µV typ.
	• Sensitivity (20dB SINAD) ETS	0.5 µV typ.

Environmental requirements and standards		
	• Water resistance and degree of protection	MIL STD 810 C/D/E and IP54
	• Shock and vibration	MIL STD 810 C/D/E und TIA/EIA 603
	• Dust and humidity	MIL STD 810C/D/E und TIA/EIA 603
	• EC directive	1999/5/EC (directive for radio and telecommunications terminal equipment)

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