

COMPACT REPEATER

- FOR LONGER AND BETTER RADIO RANGE

 **TPRADIO**

DATASHEET

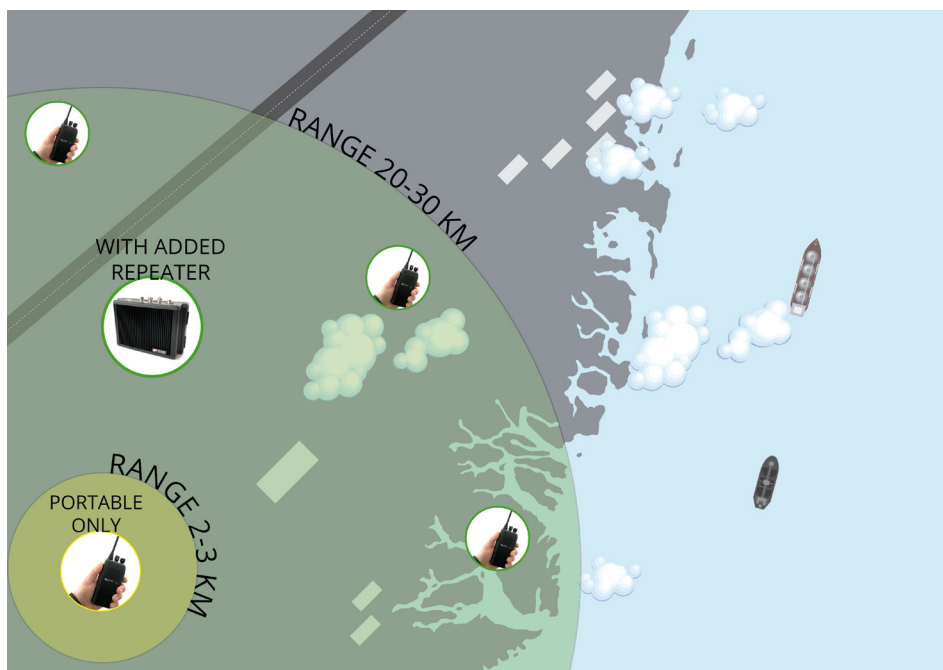


The compact repeater is a Turn-Key unattended repeater for VHF or UHF frequency bands. This repeater can be used for onboard communication, in warehouses/malls, hotels, hospitals, airports, tunnels, large construction sites etc.

If the distance is far or the coverage is poor, and longer distance communication is needed, it is the ideal solution to use a TP Radio repeater.

When communicating between two hand portables, you normally have coverage from 2 to 3 km. If there is a need to cover a larger area it will be ideal to use the Compact Repeater. With the repeater your distance of range can be extended up to 10 times.

This unattended repeater supports standard frequencies and is ideal for covering longer distance if you have a network of radios (even radios from other manufactures), and you need to cover a larger area.



HIGHLIGHTS

- **Turn-Key unit**
Ready for use, just plug in power and antenna
- **RF bandwidth**
VHF: 68 - 88 MHz
VHF: 135 - 174 MHz
UHF: 350 - 410 MHz
UHF: 400 - 470 MHz
- **Channel spacing**
12,5 / 20 / 25 KHz
- **Small size**
- **Easy to setup / plug & play**
- **32 Channels repeater**
- **Adjustable power**
High/low switch 5 / 25 Watt
- **CTCSS signaling / carrier controlled repeater**
- **Weatherproof cabinet for wall mounting**
- **Temp. Range -20 °c til +55 °c**
- **Highly flexible built with a modular design**
- **Durable construction (Aluminium)**

PROFESSIONAL RADIO COMMUNICATION

Conforms according to the directives:

RoHS 2011/65/EU, MED 2014/90/EU & RED 2014/53/EU - IP54 weatherproof Cabinet

Applied standards:

EN 300 086 - EN 300 720 (Analog part) - EN 300 113 - EN 300 219 - EN 3001 489

Specifications:

General	UHF I	UHF II	VHF 2m	VHF 4m	Receiver
Frequency Range	350-410 MHz	400-470 MHz	135-174 MHz	68-88 MHz	1. Intermediate freq. 45 MHz
Number of channels		32			2. Intermediate freq. 450 KHz
Channel spacing		12.5, 20 or 25 KHz			Sensitivity @ 20 dB (25 KHz ch. spac.) 0.6 µV typ.
Frequency error		± 2 ppm			AF output power 4 W
Mode of operation		Duplex			AF distortion < 10 %
Antenna impedance		50 Ohm			AF freq. Response 300 - 3000 Hz - 6 dB/Octave
Temperature range		-30° to + 70°C			Signal / noise ratio > 45 dB
Power supply		13.2 V Nominal.			Co-channel rejection - 3 dB
Dimensions		H. 211, W. 317, D. 92 mm			Adjacent channel selec. > 73 dB
Weight		Approx. 6000g			Spurious rejection > 75 dB
					Intermodulation sel. > 70 dB
					Blocking > 100 dB
					Spurious conducted > - 60 dBm
					Spurious radiated > -70 dBm
					Squelch level Programmable
					Signalling
					CTCSS / DCS Encoder & Decoder.
Transmitter					
Output power	Adjustable high / low in two steps 5 - 25 W				
Adj. Channel power	78 dB below carrier				
Intermod. attenuation	40dB				
Spurious conducted	less than - 40dBm				
Spurious radiated	less than - 45dBm				
Max. Deviation	+/- 5 KHz / 25 KHz channel				
Modulation distortion	< 5 % @ +/- 3.0 KHz				
Signal / noise ratio	45 dB				
AF freq. Response	300 - 3000 Hz + 6 dB octave				
Current drain	@TX 25 W = > 6.5 A				
Stand-by	>200 mA				



Dealer:

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TP Radio reserve the right to amend specifications without prior notice.*