

COMPACT REPEATER

- FOR LONGER AND BETTER RADIO RANGE



DATASHEET

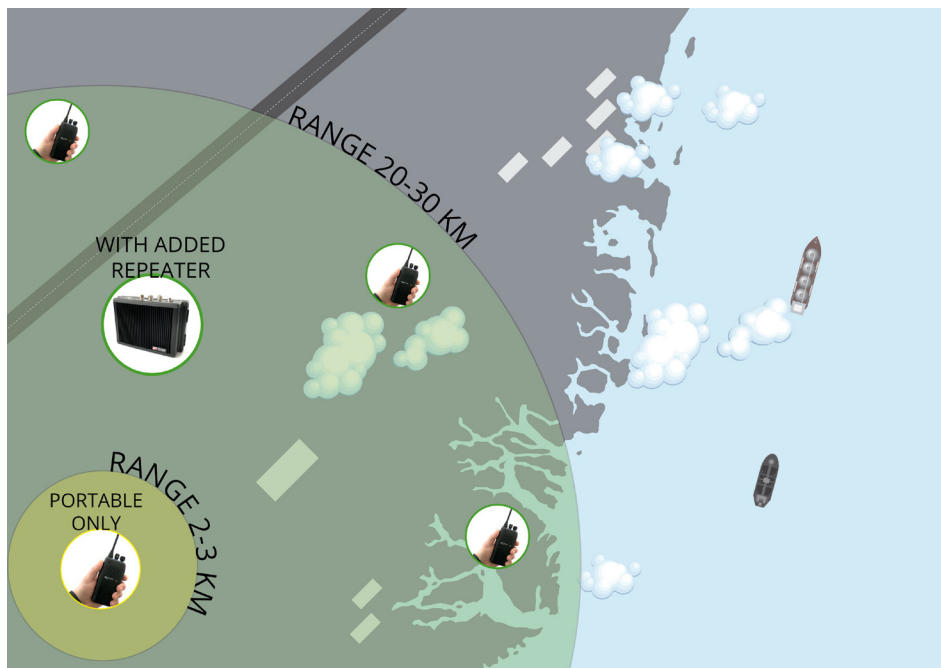


The compact repeater is a Turn-Key unattended repeater for VHF or UHF frequency bands. This repeater can be used for onboard communication, in warehouses/malls, hotels, hospitals, airports, tunnels, large construction sites etc.

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	0.6 µV typ.
Frequency error		± 2 ppm			(25 KHz ch. spac.)	
Mode of operation		Duplex			AF output power	4 W
Antenna impedance		50 Ohm			AF distortion	< 10 %
Temperature range		-30° to + 70°C			AF freq. Response	300 - 3000 Hz - 6 dB/Octave
Power supply		13.2 V Nominal.			Signal / noise ratio	> 45 dB
Dimensions		H. 211, W. 317, D. 92 mm			Co-channel rejection	- 3 dB
Weight		Approx. 6000g			Adjacent channel selec.	> 73 dB
Transmitter					Spurious rejection	> 75 dB
Output power	Adjustable high / low in two steps 5 - 25 W				Intermodulation sel.	> 70 dB
Adj. Channel power	78 dB below carrier				Blocking	> 100 dB
Intermod. attenuation	40dB				Spurious conducted	> - 60 dBm
Spurious conducted	less than - 40dBm				Spurious radiated	> -70 dBm
Spurious radiated	less than - 45dBm				Squelch level	Programmable
Max. Deviation	+/- 5 KHz / 25 KHz channel				Signalling	
Modulation distortion	< 5 % @ +/- 3.0 KHz				CTCSS / DCS	Encoder & Decoder.
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:

 **TPRADIO**

 **COMSYSTEMS**
Solutions

contact : sales@comsystems.com