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TR-810 MULTI PURPOSE VHF/AM TRANSCEIVER









TR-810

- ETSI and FCC approvals
- 10W output when used as vehicle installation or desktop mount
- Wide DC input voltage (10 to 28V)
- Fast recall of 3 preset channels
- A visually pleasing OLED display
- Detachable front panel
- Built-in loudspeaker (optional external loudspeaker)
- Multiple microphone input connections
- Voice recorder output
- External battery unit with battery indicator
- Several mounting options
- 25kHz/8.33kHz channel separation



TR-810 VHF AM MULTI PURPOSE RADIO

The TR-810 is a lightweight, rugged and flexible radio.

There are several applications of the TR-810; desktop radio (TR-810DE), vehicle radio (TR-810VE), man portable radio (TR-810MP), last resort radio (TR-810LR) or a 19"/2U enclosure suitable for rack mounting.

Detachable Operator Control Panel (OCP) offers flexible installation. Communication between the two units occurs via a CAT5 cable.

TR-810VE Transceiver Vehicle version

Any vehicle with 12 or 24VDC supply can accommodate the TR-810. The following items are included; microphone, interconnection cables, external loudspeaker, vehicle antenna and a 5 meter long extension cable (between radio and OCP, to separate the radio and OCP if mounting elsewhere in the vehicle).

TR-810DE Transceiver Desktop version

A desktop version is supplied with an external AC/DC adaptor. The AC/DC adaptor covers 100 to 240VAC. The following items are included; microphone, bracket for console mounting and an antenna cable connector.

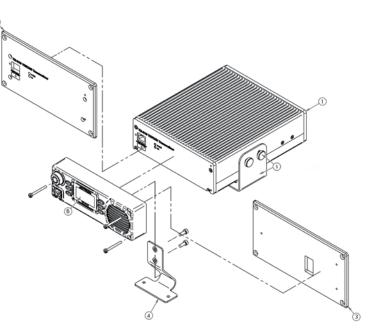
TR-810LR Transceiver Last Resort version A last resort radio is similar to a desktop radio, but contains a Lithium Ion battery pack supplying the radio with DC voltage if AC power fails. The battery status is monitored on the battery pack or on the TR-810 display. Battery capacity is 72Wh therefore, this radio will last 7.5 hours in 10% Tx/ 30% Rx/ and 60% idling duty cycle at 10W output power. Up to 9.5 hours can be achieved if output power is reduced to 2.5W.

TR-810MP Transceiver Man Portable version

This is a portable version of the TR-810, where the radio with an antenna bracket is fitted into a carrying bag. The carrying bag has 2 pockets; one containing a charger and cable and the other a microphone. The battery capacity is the same as the TR-810LR.

Easy to install:

- 1. 82769 Transceiver module
- 2. 84082 Front cover plate w/flange
- 3. 84416 Console mounting plate front module
- 4. 84391 Front bracket module w/screws
- 5. 84084 Console bracket
- 84086 Lock screws
- 6. 82768 Front module (OCP)



TR-810VE Transceiver Vehicle version

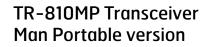


TR-810DE Transceiver Desktop version



TR-810LR Transceiver Last Resort version









TR-810 MULTI PURPOSE VHF/AM TRANSCEIVER

SPECIFICATIONS

SPELIFICATIONS	
Frequency range: Channel separation: Frequency stability: Frequency selection: Preset channels: Type of modulation: Audio oresponse: Audio output: Headphone: External speaker: Mic input: Monitor: Antenna connector: Operating temperature: Storage temperature: Operating voltage Power consumption:	118-137 MHz 25 kHz / 8.33 kHz (selectable) ± 1.0ppm 25/8.33 kHz steps 63 AM (A3E) 25kHz: +1/-3 dB rel.to 1 kHz, 300-3400 Hz 8.33kHz +1/-3 dB rel.to 1 kHz, 300-2500 Hz Built in speaker: > 4W 8 - 32 Ω > 100mW > 4W @ 4 Ω , adjustable from front panel Dynamic/Electret. Sensitivity 1.9mV Unbalanced 600 Ω 7dBm @ 70% modulation 50 Ω , BNC-connector -20 to +55°C -40 to +70°C 12 - 28VDC ±10% 10W, 80% modulation: < 60 W
Receiver section Sensitivity: Squelch: THD: S/N ratio: Adjacent channel rejection: Cross modulation: Blocking: Spurious response rejection: Intermodulation immunity: Image frequency rejection: If rejection: Permissible input level: AF AGC: Conducted spurious emissions: Effective Acceptance Bandwidth:	10 dB SINAD at 1 µV pd, 30% modulation Adjustable from min.1 µV pd, to 25 µV pd., Opening/closing:<50 ms <5%, 90% mod, 100 µV, 1kHz >45dB, 100 µV, 30%, 1kHz >80dB, 25kHz/<65dB, 8.33 kHz >90dB @ 1MHz offset >95dB @ 1MHz offset >80 dB >100dB >100dB SV EMF <3dB change in output level for modulation 30% – 90% <-70 dBm <6dB @ ± 8.5 kHz, 25 kHz , <6dB @ ± 4 kHz, 8.33 kHz channels
Transmitter section Modulation: Standing wave ratio: Output power: Keying time: Release time: Keying: LF compression (VOGAD) Limiter: Distortion: Hum and noise level: Duty cycle: Intermodulation attenuation:	AM up to 90%. Modulation depth adjustable from front panel 1: infinity 10W ± 1 dB . Adjustable. (40WPEP) Output is reduced automatically when the VSWR reaches approx 3:1 <20 msec <10 msec Mic connector s 30dB with less than 10% change in modulation Limiting amplifier prevents over modulation Less than 5% at 90% modulation Better than 40dB below at 90% modulation. 30% continuous operation at ambient temperature below 55°C >40 dB with a frequency offset of ±150 kHz
Battery backup Operating temperature: Storage temperature: Operating voltage Battery type Battery capacity Operating time @10W Operating time @ 5W Operating time @ 2.5W Power consumption - Charging - Charging + transmit	-20 to +55°C -40 to +70°C 12 - 28VDC ± 10% Lithium-ion (SAFT) 72Wh - Approx 11 hours operation (10/90 duty cycle) Approx 7,5 hour. (10/30/60 duty cycle) Approx 8,5 hour. (10/30/60 duty cycle) < 80W <140W



Jotron AS reserves the right to change the design and/or specifications at any time without prior notice. Reservations are also taken towards any general errors that may occur.

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