



- Multi purpose Transceiver
- State of the art RF-design
- Compact design
- FCC and ETSI marine approved
- User friendly operation
- Easy installation
- Detachable front panel
- Automatic muting facility
- Output for voice-recording

TR-810

MULTI PURPOSE VHF/AM TRANSCEIVER



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▶ TR-810

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Features:

- User friendly operation through:
 - dedicated buttons on the OCP for fast recall of channels
 - a bright and clear graphical display for easy readout
 - front connection for microphone input
- Complies with ETSI EN300 676 standard
- 25 kHz and 8.33 kHz
- Compact rugged cast aluminium chassis
- 10 W output power
- Built-in loudspeaker
- Set up via operators control panel or PC
- BITE (Built In Test Equipment)

SPECIFICATIONS

Frequency range:	118-137 MHz
Channel separation:	25 kHz / 8.33 kHz (selectable)
Frequency stability:	+/- 1.0ppm
Frequency selection:	25/8.33 kHz steps
Preset channels:	63
Type of modulation:	AM (A3E)
Audio response:	25kHz: +/- 3 dB rel.to 1 kHz, 300-3400 Hz 8.33kHz +/- 3 dB rel.to 1 kHz, 300-2500 Hz
Audio output:	Built in speaker: > 4W
Headphone:	8 - 32 Ω > 100mW
External speaker:	> 4W @ 4 Ω, adjustable from front panel
Mic input:	Dynamic/Electret. Sensitivity 1.9mV
Monitor:	Unbalanced 600 Ω. -7dBm @ 70% modulation
Antenna connector:	50 Ω, BNC-connector
Operating temperature:	-20 to +55°C
Storage temperature:	-40 to +70°C
Operating voltage:	12 - 28VDC +/-10%
Power consumption:	10W, 80% modulation: < 60 W

Approved to the following standards:

Radio performance:	EN 300 676 V1.3.1:
EMC:	EN 301 489-1 V 1.5.1 : EMC for radio equipment EN 301 489-22 V 1.3.1 : Specific conditions VHF aeronautical equipment IEC 60945: Maritime navigation and radio communication equipment. Part 87 and RSS 141
FCC:	According to EN/IEC 60950
Safety:	EN 300-019-2-2 : Transportation
Vibration and shock:	EN 300-019-2-5 : for ground Vehicle installations, EN 300-019-2-7 : for Portable and non-stationary use

Receiver section

Sensitivity:	10 dB SINAD at 1 μV pd, 30% modulation
Squelch:	Adjustable from min.1 μV pd, to 25 μV pd., Hysteresis: < 3 dB Opening/closing:<50 ms
THD:	<5%, 90% mod, 100 μV, 1kHz
S/N ratio:	>45dB, 100 μV, 30%, 1kHz
Adjacent channel rejection:	>80dB, 25kHz/>65dB, 8.33 kHz
Cross modulation:	>90dB @ 1MHz offset
Blocking:	>95dB @ 1MHz offset
Spurious response rejection:	>90dB
Intermodulation immunity:	>80 dB
Image frequency rejection:	>100dB
If rejection:	>100dB
Permissible input level:	5V EMF
AF AGC:	<3dB change in output level for modulation 30% – 90%
Conducted spurious emissions:	< -70 dBm
Effective Acceptance Bandwidth:	<6dB @ +/- 8.5 kHz, 25 kHz . <6dB @ +/- 4 kHz, 8.33 kHz channels

Transmitter section

Modulation:	AM up to 90%. Modulation depth adjustable from front panel
Standing wave ratio:	1 : infinity
Output power:	10W +/- 1 dB . Adjustable. (40WPEP) Output is reduced automatically when the VSWR reaches approx 3:1
Keying time:	< 20 msec
Release time:	<10 msec
Keying:	Mic connector s
LF compression (VOGAD)	30dB with less than 10% change in modulation
Limiter:	Limiting amplifier prevents over modulation
Distortion:	Less than 5% at 90% modulation
Hum and noise level:	Better than 40dB below at 90% modulation.
Duty cycle:	30% continuous operation at ambient temperature below 55°C
Intermodulation attenuation:	>40 dB with a frequency offset of +/- 150 kHz



Agent/Distributor:

Jotron AS reserves the right to change the design and/or specifications at any time without prior notice.

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