

1 SYSTEM DESCRIPTION



1.1 Subsystems

The Jotron series 7000 consists of the following modules:

VHF/AM receiver, simplex	118 - 136.975 MHz	RA-7202
VHF/AM transmitter, simplex, 50W	118 - 136.975 MHz	TA-7450
VHF/AM transmitter, simplex, 25W	118 - 136.975 MHz	TA-7425
VHF/AM transmitter, simplex, 10W	118 - 136.975 MHz	TA-7410

This manual covers the transmitters, TA-7450, TA-7425 and TA-7410.

The following remote controls are available for the radios:

ARC

With the ARC unit it is possible to extend the audio and PTT signals for a transmitter/receiver combination consisting of one main and one standby transceiver.

One line pair is used for each transceiver and contains both PTT and audio in both directions.

DRC

With the DRC unit functions like frequency settings etc. is extended to a remote panel. The DRC unit requires 1 separate line pair that is connected to the serial interface of the radio. Several DRC units may share the same line.

RCU

With the RCU unit, several radios (up to 64) can be combined on one site and interfaced to a personal computer, using a special program (RACS).

1.2 Applications

The transmitter TA-7450 can be used either as a stand alone AM transmitter for ground to air communication or together with a receiver, RA-7202 in a transceiver system.

Refer to chapter 4 for transmitter / receiver installation.

With the remote control all functions of the radios can be extended using standard 600-ohm lines and an RS-485 interface.

The radio is made with the latest technology and is completely maintenance free. There are no backup batteries for the memory or other components that need to be changed on the radios.

Fault location to part of circuit is done easily from the front panel or from the remote control. The transmitter has several built in test functions.

1.3 Modules

The transmitter TA-7450 consists of 3 sub-units, which are mounted, in 2 separate 19-inch rack adapters. One for the power supplies module (PSU-7000) and one for the transmitter module.

Power supply	X-99135 (PSU-7001)
Power supply	X-93960 (PSU-7000)
RF unit	X-99042
LF unit	X-99043

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