INTRODUCTION
The ATR 600 COM Transceiver consists electrically of five sections: Receiver transmitter board, AF Stage board, Antenna board, display circuitry, and the microprocessor board. The ATR 600 operates at 14VDC and features typical 6 Watts of transmitter power. It can also be operated down to 9VDC with reduced RF power (emergency operation).

The ATR 600 has 25KHz receiver selectivity, and operating ranges of 118.000 to 136.975 MHz. It is designed as a single block unit with 57 mm diameter for instrument panel or console mounting. The ATR 600 has the capability of programming up to 100 memory channel frequencies for later recall. Each frequency can be given a name of 8 characters.

The unit also has the capability to store a data base for the whole of Europe. A fast access method enables one to find quickly any frequency by name. The data base is an add on feature and not a basic function of the ATR-600. If it is not installed or it has been erased by a special setup the ATR-600 operates like any standard COM radio using an active and stand by display pattern. The only additional feature is the user memory and the possibility of adding names.

To prevent accidental long term transmission the transmitter automatically turns off after two minutes (for example, when a TX button becomes stuck ON).
SPECIFICATION CHARACTERISTIC

**JTSO ZULASSUNG:**
- JTSO-2C37e, ED-23B Class 4
- JTSO-2C38e, ED-23B Class C

**TSO COMPLIANCE:**
- TSO-C37d, RTCA DO-186A Class 4
- TSO-C38d, RTCA DO-186A Class C

LBA Certification Number: O.10.911/106 JTSO

**PHYSICAL DIMENSIONS:**
- Height: 2.56 in (6.5 cm)
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- Depth (behind aircraft panel): 8.66 in (22 cm)

**WEIGHT:**
- 1.55 lbs (0.7 Kg)

**MOUNTING:**
- Panel mounted, no shock mounting required

**TEMPERATURE RANGE:**
- --20 °C to +55°C with short term operation at +70°C

**POWER REQUIREMENTS:**
- Receiver: 0.1 A at standby, max. 0.5A
- Transmitter: 2.5A

**FREQUENCY RANGE:**
- 118.000 MHz to 136.975 MHz

**FREQUENCY STABILITY:**
- 0.0005% from --20°C to +55°C

**DESIGN:**
- All solid state, Printed circuit board and point to point wiring.

**TRANSMITTER**

**POWER OUTPUT:**
- 6 Watts typical
- 4 Watts minimum

**MODULATION:**
- 70% modulation capability with 98% limiting.
- Less than 10% distortion at 85% modulation.

**SIDETONE OUTPUT:**
- 100mW into 500W headphones

**MICROPHONE:**
- Standard carbon dynamic mic. containing transistorized preamp. Must provide 100mVRMS into 100W load. Or Electret. Microphone gain adjustment is also provided

**HARMONIC CONTENT:**
- Greater than 60dB down from carrier.

**DUTY CYCLE:**
- 2 min. on, 4 min. off, auto-turn off after 2 min.

**RECEIVER**

**RECEIVER SENSITIVITY:**
- 2.5iV(hard) will produce not less than 6dB
- S+N/N with 1KHz tone modulated 30%
RECEIVER SELECTIVITY:  
Class C, D  
6dB bandwidth at not less than 8.0 KHz on each side. 40dB bandwidth with no more than 17.0 KHz on each side. 60dB bandwidth with no more than 22.0 KHz on each side. RECEIVER OUTPUT: 4 W minimum into 4W.

AGC CHARACTERISTIC:  
From 10 ìV to 10,000 ìV audio output will not vary more than 3dB.

SQUELCH:  
Automatic squelch (adjustable carrier--to--noise setting) with manual disable.

MODULATION PRODUCTS:  
At least 80dB down.

INTERCOM INPUT:  
The mic. is connected to the intercom input. The receiver is operational and mic. audio appears at the audio output along with receive audio. 100mVRMS of mic. audio is required for 100mW output.

SPECIAL FEATURES

DISPLAY:  
the Display is back lit and adjusts itself automatically for the ambient light.

MEMORY FOR DATABASE:  
max. 64 000 byte (EEPROM)

REMOTE CONTROL:  
For use in tandem gliders a 57mm diameter certified remote control unit can be connected to the radio.

DATA INTERFACE:  
RS 232 for PC interfacing for download of a data base and for connection