**Part Number** **1485** (pag. 1/2)


The Automatic Transmitter Switch (ATS) monitors the correct operating state of a transmitting apparatus, allowing to detect possible failures, and automatically replaces it with a reserve transmitter if needed. The detection of the correct working status of the transmitters is made at radio-frequency level by using directional couplers. The operational parameters of the system, such as 0dB power level, intervention threshold, switching time of the transmitters, manual or automatic working mode, hot or cold stand-by, can be configured via software. The system can be remotely controlled via serial (RS232 or RS485) or parallel (with stationary or temporary contacts) connection; it is provided with audio and video distributor for base-band signals to be sent to the two transmitters, and the 19kHz pilot tone coming from the exciters can be switched to an RDS encoder, if any.

FUNCTIONS AND FEATURES

· Standard 2-units rack;
· RF FM switch with built-in 250W dummy load (option);
· HOT and COLD stand-by control for the transmitters;
· Audio base band STEREO/MPX distribution;
· 19kHz pilot switch for external RDS encoder (Option);
· Video base-band distribution (Option);
· RF monitoring trough built-in directional couplers (on optional dummy load) or external ones;
· Mains supply switch for transmitters with zero-crossing detection;
· Universal power supply;
· No calibration point;
· Intervention thresholds set via software;
· Self-calibration of the power reference level (0dB);
· Serial and parallel Remote Control.



Data updating 02/01/2008

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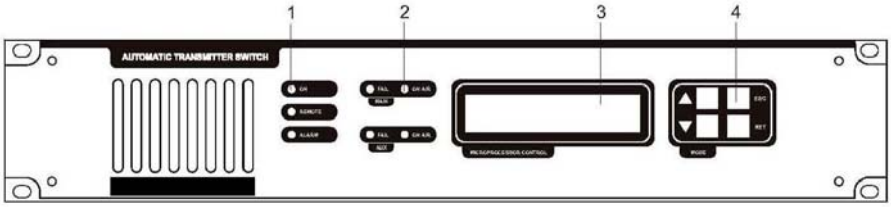
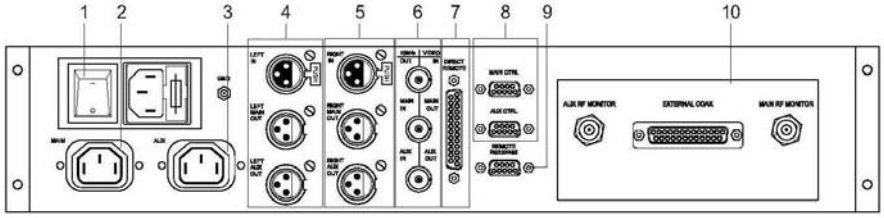
**FRONT PANEL**




1. System Status LEDs
2. Transmitter Status LEDs
3. LCD Display
4. Function keys

**TYPICAL REAR PANEL**




1. Power Supply Socket with Fuse (8A)
2. MAIN Power Supply Socket
3. AUX Power Supply Socket
4. Left Audio Distributor
5. Right Audio Distributor
6. RDS Pilot Switch (ATSEXTAS only)
   Video Distributor (ATSEXTVS only)
7. Parallel Telemeasures Socket
8. MAIN and AUX Parallel Control Socket
9. RS232/RS485 Socket
10. External Coax Connections and External Power Readings

The ATS (Automatic Transmitter Switch) is a microcontroller based device able to automatically switch to the antenna the reserve TX (Aux) in case of breakdown of the main TX (Main). The presence of the microcontroller makes the ATS extremely flexible and adaptable to any need of the customer. In fact, by means of the keys and alphanumeric display with which the ATS is provided, it is possible to enter a programming menu to set the following parameters:

- nominal working power, thus making the device compatible with transmitters of any brand and power;
- two different adjustable times: swap time and power-on time. Time selectable between 1 and 200 sec;
- power threshold, adjustable between 0.5 and 6.0dB below the nominal power;
- possibility to invert the main and reserve roles of the two transmitters;
- selectable stand-by mode: cold (power supply off) or hot (RF mute);
- remotable by RS232 or RS485;
- history of 5 alarm events;
- parallel remote control with TTL outputs and momentary free contact inputs;
- internal 250W FM dummy load;
- internal audio and video distributor;
- 19kHz RDS reference switch for audio model.

For the ATS it is also possible to prevent it from working automatically in order to enter the manual mode, so to be able to perform the usual maintenance and repair operations in case of breakdown of one or both the transmitters. In manual mode you have the ability to turn on or off one or both the transmitters.



Data updating 02/01/2008

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