



ATS Automatic Transmitter Switch

MAIN CHARACTERISTICS:

- Rack 19"-2U (20U for ATS1000 and ATS2000)
- FM switch with built in 250W dummy load (ATS250FM only)
- HOT and COLD stand-by control for the transmitter
- Manual and Automatic switch-over
- Audio (Stereo and MPX) distribution with 19kHz pilot switch for external RDS encoder
- Video and ASI distribution
- RF monitoring through internal (if internal dummy load is present) or external directional couplers
- Mains supply switch for transmitters with zero-cross detection
- No calibration point
- Intervention thresholds user adjustable between -0.5dB and -6.0dB
- 2 different alarm mask time user selectable
- Self-calibration of the power reference level (0dB)
- Alarm log
- Display for complete user interface
- Leds on front panel for quick view of status
- Serial (RS232 and RS485) and parallel remote control
- Universal Power Supply

The Automatic Transmitter Switch (ATS) acts as 1+1 passive reserve controller monitoring the correct operating state of a transmitting equipment, allowing to detect possible failures, and automatically replacing 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 by display and keys user interface. The system can be remotely controlled via serial (RS232 or RS485) or parallel (with stationary or temporary contacts)

connection.

It is provided with audio (FM), video (analog TV) and ASI (digital TV) 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.

The switch on and off of a transmitter is made by free contact and by AC Power supply (for AC power up to 500W).

The ATS1000 and ATS2000 models are equipped with Coax and Dummy Load for respectively 1kW and 2kW 1+1 transmitters change-over.

All ATS models are available with time controlled change-over in order to achieve a night switch to a different exciter and/or transmitter.



▲ Rear panel

CODE	MODELS	
	USE	
ATS500FM ATS500TV	Up to 500W FM Transmitter change-over Up to 500W TV Transmitter change-over	
ATSEXTAS ATSEXTVS	High Power FM Transmitter change-over High Power TV Transmitter change-over	
ATS50FM ATS50TV ATS50ASI	FM Exciter change-over Analog TV Exciter change-over Digital Exciter change-over	
ATS250FM	250W FM Transmitter change-over	
ATS1000FM ATS2000FM	1kW FM Transmitter change-over 2kW FM Transmitter change-over	

Technical characteristics



ATS

AUDIO distributor (FM models only)

Connector In/Out	XLR Male/XLR Female
Impedance In/Out	600 or 10k , jumper selectable
Gain	1
Frequency	up to MPX

VIDEO distributor (TV models only)

Connector In/Out	BNC/BNC
Impedance In/Out	50 /50
Gain	1

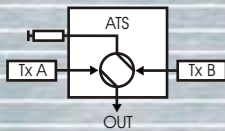
ASI (ASI models only)

Connector In/Out	BNC/BNC
Impedance In /Out	75 /75

GENERAL

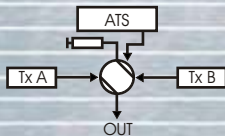
AC Power Supply Input	80 - 260Vac 50/60Hz
AC Power Supply Output	500W Max for each socket (zero crossing detect)
Dimensions	Rack 19" 2U (20U for ATS1000 and ATS2000)

Models and Topologies



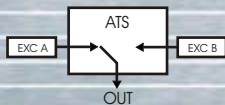
AT500FM	Equipped with: 2 Audio distributor, 1 RDS Pilot Switch, 4 Port 500W internal Coax
AT500TV	Equipped with: 2 Audio distributor, 1 Video distributor, 4 Port 500W internal Coax

Use: Up to 500W FM (AT500FM) and TV (AT500TV) Transmitter change-over



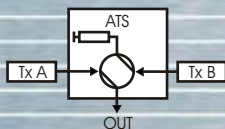
ATSEXTAS	Equipped with: 2 Audio distributor, 1RDS Pilot Switch
ATSEXTVS	Equipped with: 2 Audio distributor, 1 Video distributor

Use: High power FM (ATSEXTAS) and TV (ATSEXTVS) Transmitter change-over



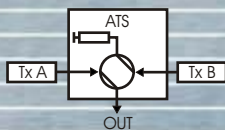
AT50FM	Equipped with: 2 Audio distributor, 1 RDS Pilot Switch, 3 Port 50W Internal Coax
AT50TV	Equipped with: 2 Audio distributor, 1 Video distributor, 3 Port 50W Internal Coax
AT50ASI	Equipped with: 1 ASI distributor, 3 Port 50W Internal Coax

Use: FM (AT50FM), Analog TV (AT50TV) and digital TV (AT50ASI) Exciter change-over



AT250FM	Equipped with: 2 Audio distributor, 1 RDS Pilot Switch, 4 Port 250W internal Coax and 250W Dummy Load
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Use: 250W FM Transmitter change-over



AT1000FM	Equipped with: 2 Audio distributor, 1 RDS Pilot Switch, 4 Port 1kW Internal Coax and 1kW Dummy Load in a Rack 19" - 20U
AT2000FM	Equipped with: 2 Audio distributor, 1 RDS Pilot Switch, 4 Port 2kW internal Coax and 2kW Dummy Load in a Rack 19" - 20U

Use: 1kW and 2kW FM Transmitter change-over

These specifications are subject to change without notice

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