



**Stereo FM Exciter 87.5-108 MHz range**

AMPLIFIERS  
TRANSMITTERS  
ANTENNAS  
ACCESSORIES



**TEX 100**  
**TEX 100/S**

**EXCITERS**

**TEX 100 • TEX 100/S**  
**Features**

- 1 Easy and direct programming of the frequency, by Thumbweel-Switches, Step 10 KHz
- 2 Soft-start from RF mute status
- 3 Adjustable power output from 2 to 100 W with automatic power control, maintaining the output at any fixed level
- 4 Available with 2 SCA/RDS input connectors
- 5 Main parameters available also on terminal board for remote control
- 6 Compatibility with external references for custom phase locking in synchronous applications
- 7 Meets or exceeds all FCC and CCIR requirements
- 8 High reliability provided by conservatively rated components
- 9 Modular layout with Plug-in, easy replaceable circuits and parts
- 10 Built-in stereo coder (TEX100/S)

**TEX 100 • TEX 100/S**  
**Caratteristiche**

- 1 Programmazione facile e diretta della frequenza, tramite Thumbweel- Switches, Step 10 KHz
- 2 Soft-start nello stato di RF mute
- 3 Potenza di uscita regolabile da 2 a 100 W con controllo automatico di potenza, che ne fissa il livello d'uscita stabilito
- 4 Disponibile con 2 ingressi SCA/RDS
- 5 Disponibili uscite di tutti i parametri fondamentali di funzionamento per eventuali tele-controlli
- 6 Possibilità di aggancio di fase a riferimento esterno per applicazioni sincronizzate
- 7 Specifiche conformi alle normative FCC e CCIR
- 8 Alta affidabilità assicurata dal sovradimensionamento dei componenti
- 9 Realizzazione modulare con plug-in per consentire una facile sostituzione di circuiti e parti
- 10 Stereo coder incorporato (TEX100/S)

**TEX 100 • TEX 100/S**  
**Caractéristiques**

- 1 Programmation facile et directe de la fréquence par Thumbweel-Switches, Step 10 KHz
- 2 Soft.start dans l'état de mute
- 3 Puissance de sortie réglable de 2 à 100 W avec contrôle automatic de puissance, qui en fixe le niveau de sortie décidé
- 4 Disponible avec 2 entreés SCA/RDS
- 5 Disponibles sorties de tous le paramètres fondamentaux de fonctionnement pour d'éventuels télé-contrôles
- 6 Possibilité d'accroche de phase de références externes pour applications synchronisées
- 7 Specifications conformes ou supérieures aux normes FCC et CCIR
- 8 Haute fiabilité grâce à un surdimensionnement des composants
- 9 Réalisation modulaire avec Plug-in pour permettre une facile sostiution de circuits et parts
- 10 Codificateur stéréo incorporé (TEX100/S)



# TECHNICAL SPECIFICATIONS **TEX 100 - TEX 100/S**

- Rated output power: 2-100 W continuously variable (A.L.C.)
- R.F output connector: "N" type
- R.F output impedance: 50 Ohm
- Frequency range: 87.5 MHz to 108 MHz
- Frequency programmability: direct from front panel in 10 KHz increments
- Frequency stability: better than  $\pm 100$  Hz
- Modulation type: direct carrier frequency modulation
- Spurious & Harmonic suppression: meets or exceeds all FCC and CCIR requirements
- Modulation capability: meets or exceeds all FCC and CCIR requirements
- Asynchronous AM S/N ratio: 70 dB below reference carrier with 100% amplitude modulation at 400 Hz. Without de-emphasis, no FM modulation present
- Synchronous AM S/N ratio: 60 dB below reference carrier with 100% amplitude modulation at 400 Hz. Without de-emphasis, FM modulation =  $\pm 75$  KHz at 400 Hz
- Transient intermodulation distortion: less than 0.1% measured with a 3.18 KHz square wave and a 15 KHz sine wave at 100% modulation (typical 0.05%)
- AC power source: 117 or 230 V  $\pm 10\%$ , 50-60 Hz, single phase
- Available transformer taps: 100, 120, 220 and 240 V
- Power consumption: approx 250 W (350 VA) from AC
- Panel size: 483 mm (19")W x 132.5 mm (5.2")H (3 standard rack spaces high)
- Overall depth: 340 mm (13.6")
- Ambient temperature range: -10 °C to +50 °C
- Preemphasis: for FCC 75 microsec, for CCIR 50 microsec

## Composite operation

- Composite inputs: 1 for MPX (XLR) and 2 for SCA (BNC)
- MPX input: 1 balanced or unbalanced XLR connector
- MPX input impedance: 10 KOhm
- MPX input level: adjustable from +9 to -12 dBm nominal for  $\pm 75$  KHz deviation, adjustable

- Composite FM S/N ratio: > 75 dB below  $\pm 75$  KHz deviation at 400 Hz measured in a 30 Hz to 100 KHz bandwidth with 50-75 microsec de-emphasis (RMS)
- Composite amplitude response:  $\pm 0.5$  dB, 30 Hz to 100 KHz
- Composite total harmonic distortion: less than 0.1% (0.05% typical)
- Composite intermodulation distortion: 0.05% or less measured with a 1 KHz and a 1.3 KHz tones, 1:1 ratio, at 100% modulation
- Stereo separation: > 45 dB (50 dB typical)
- SCA input connectors: 2 unbalanced BNC connectors
- SCA input impedance: 10 KOhm
- SCA input levels: 0 dBu (775 mVrms=2.2 Vpp) nominal for  $\pm 7.5$  KHz deviation, adjustable
- SCA amplitude response:  $\pm 0.5$  dB, 40 KHz to 100 KHz

## Monaural operation

- Audio input impedance: 600 Ohm balanced or unbalanced XLR connector 50 dB common mode suppression
- Audio input level: adjustable from +9 to -12 dBm for  $\pm 75$  KHz, adjustable
- FM S/N ratio: > 80 dB below  $\pm 75$  KHz deviation at 400 Hz measured in a 30 Hz to 15 KHz bandwidth with 50-75 microsec de-emphasis (RMS)
- Audio frequency response:  $\pm 0.5$  dB, 30 Hz to 15 KHz
- Total harmonic distortion: 0.05% or less, measured with a 1 KHz
- Intermodulation distortion: 0.05% or less, measured with a 1 KHz and a 1.3 KHz tones, 1:1 ratio, at 100% modulation

## Stereo operation (only TEX 100/S)

- Audio input impedance left/right: 600 Ohm balanced or unbalanced XLR connector
- Audio input level: adjustable from +9 to -12 dBm
- Total harmonic distortion: less than 0.07% (0.05% typical)
- Audio amplitude response:  $\pm 0.3$  dB, 30 Hz to 15 KHz
- Stereo separation: > 45 dB (50 dB typical)
- Stereo FM S/N ratio: > 75 dB below  $\pm 75$  KHz deviation at 400 Hz measured in a 30 Hz to 100 KHz with deemphasis (RMS) > 66 dB left/right channels, 50 microsec. de-emphasis, KuPk detector, CCIR weighted and unweighted filter. Ref = 40 KHz peak deviation



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These specifications are subject to change without notice. Per esigenze tecnico-costruttive ci riserviamo il diritto di apportare varianti ai prodotti, senza preavviso.