



BEXT

PT 30 LCD
PT 60 LCD
PT 100 LCD

*Frequency Agile
 FM Exciters /
 Transmitters*

- Completely Microprocessor supervised
- All functions including frequency reassignment can be remotely supervised & controlled by PC via Modem
- Optional AES/EBU Input for Digital Audio Available
- 90 dB S/N typical provides Digital CD Quality
- Optimized PLL Design improves the low frequency response
- Exhaustive Listening Tests confirm transparency and clearness of audio
- User Friendly Graphics Interface allows the setting and reading of all exciter's parameters
- Settings and measurements available through RS-232C interface
- External analog signal reading and relay control of external devices
- Automatic notification of alarm conditions
- Always ON-AIR at any VSWR level due to built-in proportionate auto-foldback
- Can be powered by 24 V DC

General

Rated Output Power: 0-30W (PT30), 0-60W (PT60), 0-100W (PT100) continuously variable (A.L.C.)
 RF Output Connector: "N" type female
 RF Output Impedance: 50 ohm
 Frequency Range: 87.5 MHz to 108 MHz
 Frequency Programmability: direct from front panel
 Frequency Stability: ± 2.5 ppm from -10°C to 50°C
 Modulation Type: direct carrier frequency modulation
 Modulation Capability: meets or exceeds all FCC and CCIR requirements, typical 240 kHz on MPX
 Spurious & Harmonic Suppression: meets or exceeds all FCC and CCIR requirements, typical -85 dB
 Asynchronous AM S/N Ratio: 70 dB below reference carrier with 100% amplitude modulation at 400 Hz.
 Synchronous AM S/N Ratio: 60 dB or better below reference carrier with 100% amplitude modulation at 400 Hz, without de-emphasis, FM modulation = ± 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 Requirement: 110-130 V, 50-60 Hz, single phase
 198-250V, 50-60 Hz, single phase
 Power Consumption: approx 120 VA (PT 30), approx 200 VA (PT 60), approx 300 VA (PT 100)
 Panel Size: 483 mm (19") W x 88 mm (3 1/2") H (2 standard rack spaces high)
 Overall Depth: 344 mm (26.5")
 Weight: 13 Kg (PT 30), 15 Kg (PT 60), 15 Kg (PT 100)
 Ambient Temperature Range: -10° to 45° C
 Pre-emphasis: for FCC: 75 μsec ; for CCIR: 50 μsec
 Other Features: Signal Test Samples, Relay Contacts, Serial Interface, Telemetry Interface

Composite Operation

Composite Inputs: four total, 1 for MPX and 3 for SCA
 MPX Input: 1 unbalanced BNC connector
 MPX Input Impedance: 10 k ohm
 MPX Input Level: 3.5 V P-P (1.237 V RMS / 4.1 dBm)
 Composite FM S/N ratio: -87 dB (-90 dB Typical) below ± 75 kHz deviation at 400 Hz measured in a 20 Hz to 200 kHz bandwidth with 75 μsec de-emphasis (RMS)
 Composite Amplitude Response: ± 0.05 dB, 20 Hz to 53 kHz, ± 0.2 dB, 53 kHz to 100 kHz
 Composite Total Harmonic Distortion: < 0.02% (0.01% typical)
 Composite Intermodulation Distortion: < 0.02%, measured with a 1 kHz and a 1.3 kHz tone, 1:1 ratio, at 100% modulation
 Stereo Separation: > 50 dB (60 dB typical)
 Crosstalk: main to stereo subchannel and stereo subchannel to main >55 dB (60 dB typical)
 SCA Inputs / SCA Impedance: 3 unbalanced BNC connectors / 10 k ohm
 SCA Input Levels: 0 dBm (775 mVrms/2.2 Vp-p) nominal for ± 7.5 kHz deviation, adjustable
 SCA Amplitude Response: ± 0.15 dB, 40 kHz to 100 kHz
 Crosstalk: 67 kHz SCA to main or to stereo subchannel >65 dB
 Crosstalk: 92 kHz SCA to main or to stereo subchannel >70 dB

Monaural Operation

Audio Input Impedance: 600 ohm balanced or unbalanced; 50 dB common mode suppression
 Audio Input Level: 0 dBm (775 mVrms/2.2 Vp-p) for ± 75 kHz, adjustable
 FM S/N Ratio: > 87 dB (-90 dB Typical) below ± 75 kHz, deviation at 400 Hz measured in a 20 Hz to 20 kHz bandwidth with 75 μsec de-emphasis (RMS)
 Audio Frequency Response: ± 0.5 dB, 30 Hz to 15 kHz
 Total Harmonic Distortion: < 0.02% (0.01% typical)
 Intermodulation Distortion: 0.02% or less, measured with 1 kHz & 1.3 kHz tone, 1:1 ratio, at 100% modulation