

POS-50N+



POS-50N+ is FM transmitter for broadcasting, able to transmit in the band between 87.5 to 108 MHz, Continuously adjustable output power from 0 to 50 watt. Completely microprocessor-controlled easy to program from the menu, all main parameters can be read on the large LCD display. They are designed with aluminum box to be contained in a 19" rack of 2U.

Technical Specifications

Frequency

Frequency range	87.50 – 108.00 MHz
Frequency step	10 KHz
Frequency control	PLL Synthesizer & Microprocessor
Frequency error	< +- 300 Hz / 3 month
Frequency deviation	+/- 75 KHz

RF Output

RF output power	50 watts (normal)
RF output power accuracy	< +- 0.3 dB@50 watts
RF output connector	N Type, Female
RF output impedance	50 Ohm
Harmonics	< -65 dBc
Out of band emissions (spurious)	< -85 dBc

Remote Control

PC Control/monitor	RS-232 female
Interlock	2 BNC connector

General

Type	Solid state, Direct FM
Pre-emphasis	0us, 50us or 75us, selectable
Audio input	XLR female
Audio input impedance	600 ohms or 10Kohms, selectable
Audio source	Mono, MPX or Stereo, selectable
Temperature operating range	0 – 50 °C
AC power requirement	200 – 260 Vac
Power consumption (typical)	300 VA (typ. 1.3A@230 Vac)
Dimension	2U, 485x88x440 mm (WxHxD)
Weight	10 kg.

Pass for NBTC Thailand Specification

1. Rated Carrier Power
2. Conducted Spurious Emission
3. Out-of-Band Emission
4. Frequency Error
5. Frequency Deviation




Rear panel

POS-50N+

Technical Specifications

Specifications	POS-50N+	POS-50ND+
General		
Frequency range	87.50 – 108.00 MHz	
Frequency step	10 KHz	
Frequency deviation	+- 75 KHz (normal)	
Frequency error	< +- 300 Hz	
RF output power	50 watts (55W max.)	
RF output power accuracy	< +- 0.3 dB@50 watts	
RF output connector	N Type, Female	
RF output impedance	50 Ohm	
Harmonics	< -65 dBc	
Out of band emissions (spurious)	< -85 dBc	
Pre-emphasis	0us, 50us or 75us, selectable	
Operation Mode	Mono, MPX or Stereo, selectable Analog selectable	Mono, MPX or Stereo, Digital selectable
Temperature operating range	0 – 50 °C	
AC power requirement	200 – 260 Vac	
Power consumption (typical)	300 VA (typ. 1.3A@230 Vac)	
Dimension	2U, 485x88x440 mm (WxHxD)	
Weight	10 kg.	11 kg.
Remote Control		
PC Control/monitor	RS232 Female	
Interlock Control	2 BNC connector	
Audio Connector		
Analog Audio input connector (Left and right)	XLR female	
Digital AES/EBU Audio input Connector	No	XLR female
MPX, SCA and RDS input connector	1 MPX, 2 SCA, 1 RDS BNC female connector	
19 KHz output	BNC female connector	
Digital Audio Mode	No	AES/EBU
Audio Operation		
Audio input impedance (Left&Right)	600 ohms or 10Kohms, selectable	
MPX, SCA, RDS input impedance	10Kohms	
Stereo S/N FM ratio	>70 dB (@+- 75 KHz deviation)	
Stereo separation	> 50 dB	
Total harmonic distortion (Stereo)	< 0.3% (30 Hz – 15 KHz)	
Left and right input level	-6dBm to + 12dBm, adjustable	



Model Available:

POS-50N+ / 50W FM transmitter Build in stereo encoder

POS-50ND+ / 50W FM transmitter Build in stereo encoder and digital audio input