

## POS-500N+



**POS-500N+** is FM transmitter for broadcasting, able to transmit in the band between 87.5 to 108 MHz, Continuously adjustable output power from 0 to 500 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	500 watts (normal)
RF output power accuracy	< +- 0.3 dB@500 watts
RF output connector	N Type, Female
RF output impedance	50 Ohm
Harmonics	< -70 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)	900 VA (typ. 4A@230 Vac)
Dimension	2U, 485x88x550 mm (WxHxD)
Weight	15 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-500N+

### Technical Specifications

Specifications	POS-500N+	POS-500ND+
<b>General</b>		
Frequency range	87.50 – 108.00 MHz	
Frequency step	10 KHz	
Frequency deviation	+- 75 KHz ( normal)	
Frequency error	< +- 300 Hz	
RF output power	500 watts (550W max.)	
RF output power accuracy	< +- 0.3 dB@500 watts	
RF output connector	N Type, Female	
RF output impedance	50 Ohm	
Harmonics	< -70 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)	900 VA (typ. 4A@230 Vac)	
Dimension	2U, 485x88x550 mm (WxHxD)	
Weight	15 kg.	16 kg.
<b>Remote Control</b>		
PC Control/monitor	RS232 Female	
Interlock Control	2 BNC connector	
<b>Audio Connector</b>		
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
<b>Audio Operation</b>		
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-500N+ / 500W FM transmitter Build in stereo encoder

POS-500ND+ / 500W FM transmitter Build in stereo encoder and digital audio input