





- * 30W FM Exciter/ Mini-transmitter
- * Broadband 87,5-108,1MHz
- * Stereo generator included
- * More punch, hi-fi VCO
- * Universal Full-range power supply
- * Audio processor card available
- * RS232 Interface
- * Remote/Interlock interface
- * SCA and RDS inputs
- * MOSFET DESIGN

MiniStation Series: Powerful FM Exciters | Transmitters, Reliable, Excellent Audio Quality CD, Stereo and Single Band Audio Processor Card Available.

The EX30 MiniStation is a complete FM Exciter/Transmitter. You can choose the frequency through the buttons located on the equipment front panel. Frequencies between 87,5 to 108,1MHz can be set by the user in 100kHz steps. The equipment is totally BROADBAND, this means, the RF power level stays the same independently of operation frequency.

The excellent audio quality is due to its hi-quality FM VCO, modulating through eight varicap diodes.

The EX30 has variable power output from 0W to 30W, this is important if you drive an external power amplifier (like Smart Series and PowerCell), this way, if your amplifier need about 25W to input this FM exciter is the most indicated.

 $Suitable \ for \ applications \ like \ FM \ exciter, \ the \ EX30 \ can \ also \ be \ used \ as \ stand \ alone \ transmitter.$

The EX30 MiniStation has a stereo generator built-in, only connecting the audio cable from the mixer the FM station is on the air. Also, you can configurate if your transmittion will be in MONO or STEREO mode - externally - just pressing the buttons on the front panel, and it's done.

All MiniStation series have an optional card called "Single Band Audio Processor - APCard-1" you can turn your MiniStation into even more powerful version. This card processes the audio from the mixer in a limited/compressed audio level, avoiding distortions on the audio modulation.

Also, if you have an external audio processor, the EX30 MiniStation has an option in its panel: you can configure the main audio input, if it is stereo generated internally to EX30 or externally, from the processor. To do this, you just need to press the buttons UP/DOWN and SELECT.

RDS encoders may be connected in the EX30 MiniStation, there are 2 inputs for these encoders: SCA input and 19KHz tone sync output.

The EX30 is available in American, European and also Japanese bands only pressing the overset of the equipment.

On the LCD display, parameters like operation frequency, FWD and Reverse power, Composite audio level, Left and Right audio level, selection of internal or external MPX, Stereo or Mono operating and others are shown. We present an easy to use interface in this exciter, easy to configure and operate.

The AC input is Full-Range (from 85 to 265V AC) "Switched Mode Power Supply" faciliting the main connections around the world, 47 to 63Hz.

The EX30 is a complete solution, offering superior audio performance and quality.

Get more information about EX30 in the following pages!

Sinteck Next RF Systems

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MiniStation Series - FM Broadband Exciters

MiniStation EX30 - 30W Broadband FM Stereo Exciter

EX30 LCD Panel, some configurations...

FM FREQUENCY 103, 6 MHZ st

Channel change directly on the front panel. You can choose the frequency from 87,5 to 108,1MHz.

Fwd Power: 33W Rfl Power: OW

Foward and Reverse power are shown in real-time in percents. Automatic reducing power level when excedeed the SWR limit.

Vpa: 12, 6V <Temp>
I pa: 2, 9A 28, 8 C

Voltage in the power amplifier stage, including total current and what is the temperature in the heatsink can be monitored in this view.

Audi o Modul ator: M~0000000

The audio level that modulates the VCO is shown in this LCD menu, very important to know if the modulation is distorcing your FM transmitter.

L~0000000000 R*000000

Left and Right audio levels are monitored in this view. You can know if both channels are ok.

Rfl Protection
Max. Level: 5

You can set the maximum Reverse power admissed, if the limit is more than the set, the RF power output is turned off, protecting the equipment.

Mpx Selection : ~Int. Ext. External audio processor or STL links might be connected, only seting to External MPX.

Internal Mpx: ~Stereo Mono You can select if the audio transmittion is in Stereo or Mono only pressing the buton UP/DOWN.

Audi o Processor! ~ON OFF Once installed the audio processor card, this view will appear, you can set if this card will be operating or not.

Confi g_Hol d: ~Enabl e Di sabl e After configurated the patterns you want, you can choose this option to ENABLE, this way nobody get to modify your personnal configurations.

EX30 Front panel overview:



EX30 Visual-cabinet overview:



EX30 Rear panel overview:



EX30 Internal Overview:









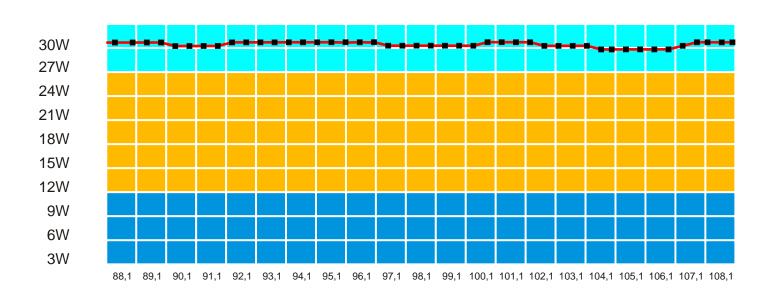
MiniStation Series - FM Broadband Exciters

MiniStation EX30 - 30W Broadband FM Stereo Exciter

EX30 Internal Overview:



RF Power Output:









MiniStation Series - FM Broadband Exciters

MiniStation EX30 - 30W Broadband FM Stereo Exciter

Technical Features:

RF Features:

Output Power:	33W +/- 5% variation across the band
RF Output Impedance:	50 Ohms
RF Output Connector:	N Female
Frequency Range:	76,0 to 98MHz and 87,5 to 108,1MHz
Frequency Step:	Default 100KHz, selectable for 200kHz or others under request
Frequency Programmability:	UP/DOWN Keys, safety hold programmable on the front panel
Frequency Stability:	5 ppm, 2 or 1 ppm under request
Type of Modulation:	F3, FM direct modulation (RF oscillator directly on the frequency)
Harmonic and Spurious Attenuation:	>80dBc
Residual AM modulation (Assyncr.)	Approximately 0,05% (55dB)
Residual AM modulation (Syncr.)	Approximately 0,1% (65dB)
Intermodulation Distortion:	<0,05% @ 1kHz
Frequency Response Capability:	20Hz to 200kHz

Power Supply:

AC Input:	Universal Full-Range 85 to 265VAC 47 to 63Hz
DC Input:	Not available in this version
AC Surge Protection:	3 Varistor 285V, gas discharger and fuse
Power Supply Efficiency:	85% or better in 220V AC
Switching Frequency:	100kHz
Power Consumption:	Approximately 45W from AC
AC Input Connector:	IEC socket connector

General Features

Weight:	1,5kgs net weight
Dimensions:	483mm (6*) wide, 44,45mm (1,5*) high, 150mm (4*) deep
Ambient Temperature Range:	0 to +45 Degrees Celsius
Maximum Humidity:	95% at +45C without condensation

CPU and Display Features:

CPU:	PIC Processor, microcontrolled with Sinteck Ex01 Software V.1.0
Memory:	Non-volatile, retention >40 years
Full Micro-controlled protections:	PLL out of lock, VSWR excedeed
Panel Keys Control:	UP/DOWN freq. St or Mono, Int or Ext MPX, Config Hold
LCD Display:	16 colums, 2 lines, green back light

Audio Inputs Left&Right:

Input Connectors:	XLR Female
Internal Jumper selection for:	50 or 75us stereo pre-emphasis
Input Impedance:	600 Ohms umbalanced
Frequency Response:	20Hz to 15kHz (THD+N < 0,1%)
Input Level:	0dB for 75KHz carrier deviation
Stereo Separation:	Better than 45dB @ 1kHz
Pilot Tone Frequency/Stability:	19kHz +/- 1Hz

MPX Input:

Input Impedance:	10k Ohms Unbalanced BNC Connector
Frequency Response:	20Hz to 200KHz +/- 1dB for 75kHz deviation

SCA Input:

Input Impedance:	10k Ohms Unbalanced BNC Connector
Frequency Response:	15kHz to 200KHz +/- 1dB for 75kHz deviation

RDS Tone Sync Output:

Output Impedance:	10k Ohms Unbalanced BNC Connector
19kHz sync frequency level:	Fixed 1Vpp

*Specification subject to change without notice



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