

# FSN Series FM Transmitter Manual



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# Front Panel



Schematic diagram of the main interface for information display window



## 1,Handing Instructions

First of all , please connect the RF OUTPUT INTERFACE ANTENNA or the FICTITIOUS LOAD, next, join the power and then press the power switch on the Panel.

Turn on the power switch , the Red Led lights, after 3 seconds LCD Display Window will show information about the LOGO (Diagram 1). LOGO information can be customized



Diagram 1

Enter the main interface

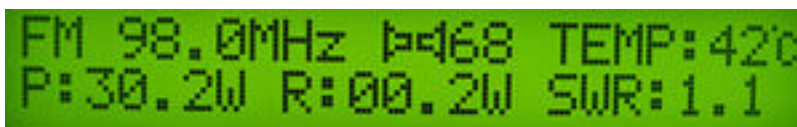


Diagram 2

After entering the main interface, it will display the operating frequency, volume, temperature of FETMOS , output forward power, output back power and standing wave ratio.

Be careful that entering the main interface, output power will start increasing from 0 Watts, it needs about 30 seconds to reach the maximum power setting.

When the standing wave or temperature are under protection, the output power is automatically reduced to below 1 Watt and screen displays the alarm message, after troubleshooting, the output power is automatically adjusted to the set of output power. Display screen with no operation during 10 seconds, the backlight will be turned off automatically.

## 2, function setting

Knob rotation to the lower end of regulation left, turn right spin to the high-end adjustment, under the main interface, press the enter MENU, press the MENU to enter the next set interface, set interface in the press for the recognition based set and return to the MENU.

Diagram 2 for the frequency setting menu



Diagram2

Diagram 3 - the frequency setting interface, the frequency setting scope is 87-108MHZ (special frequency can be customized according to customer request, please connect to our company if you want more information )



Diagram3

Diagram 4 - the input audio volume adjustment menu



Diagram 4

Diagram 5 - the volume setting interface, volume setting range is 0-79



Diagram 5

Diagram 6 - the output power setting menu



Diagram6

Diagram 7 - the power interface, power setting range is 0-30Watt.

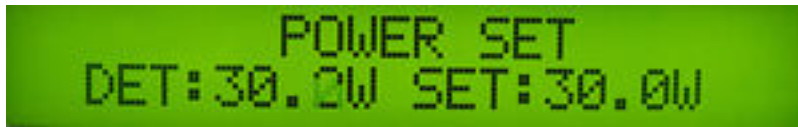


Diagram7

Diagram 8 - the stereo Mono setting menu



Diagram8

Diagram 9 - the sound channel setting interface

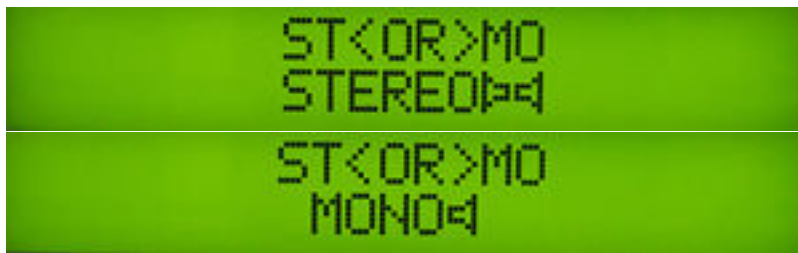


Diagram9- Stereo/Mono

Diagram 10 — the temperature settings menu



Diagram10

Diagram 11 - the temperature settings interface, the temperature can be set within 60-70°C ,  
1°C each stepping



Diagram11

Diagram 12 - the VSWR setting menu



Diagram12

Diagram 13 - a standing wave protection setting interface, standing wave protection setting range is 1.5-3.0,  
0.1 each stepping.

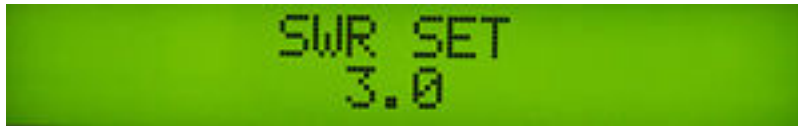


Diagram13

Diagram 14 - the mute sound settings menu



Diagram14

Diagram 15 - the mute sound setting interface, the default is ON



Diagram15

Diagram 16 - exit the menu, press it return to the main display interface



Diagram16

### 3. Transmitter parameters

Power Output:	0 to 30/80/150/350/600/1000Watt(Power adjustable, Step: 0.1Watt)
FM Transmitter Frequencies:	87-108Mhz ( Other frequency can be customized )
Tuning Step:	100Khz/0.1Mhz
Voltage:	AC100V-120V or AC220V-240V
Stability of Frequency:	$\pm 0$ ppm ( -10°C~+50°C )
Frequency Response:	50 - 15000Hz
Signal to Noise Ratio:	>50dB
Distortion:	< 0.5%
Parasitic amplitude modulation:	< 0.2%
Maximum frequency deviation:	$\pm 75$ KHz
type of modulation:	WFM
Transmission Signal:	FM Stereo and Mono
Tuning Design:	Stable PLL Technology
Harmonic:	> 65dbc
Audio Input Level:	-15dbV ( Max: -30dbV )
Stereo Separation:	> 40db
Operation Time:	True 24/7
Antenna Connector:	N type(L16)

Output Impedance:	50 ohm
Audio Input Connector:	BNC type
SCA/RDS Input Connector:	BNC type
Size of Transmitter Unit:	L:480mm, W: 200mm, H:44mm      Standard 1U
Weight of Transmitter Unit:	10Kg

#### 4. Fault checking and troubleshooting

- Alarm signal 1 (Warning! Please check the antenna!) standing wave protection alarm, please check if the transmitter antenna is connected properly or water inflow and feeder is damaged. Shall not exceed the use of antenna frequency range.
- Alarm 2 (HIGH TEMPERATURE WARNING!!! ), High-temperature alarm, check if the transmitter air vent is blocked or the working environment temperature is too high.
- Nothing displayed on LCD, LED power light does not light. Check if the fuse of the transmitter power socket is burn-out.
- The received signal has current sound: Please avoid power lines, RF output cable and audio cable puzzling and away from the surrounding electrical disturbance source. Audio signal input line must use shielded wire.

Sound distortion phenomenon when the radio are receiving: adjust the input volume of the transmitter audio sources properly

#### 5 After-sales service

Products are guarantee for free for one year (disassemble deliberately or burning are not included in this range).

After-sales warranty date is from the date of consign.

Provide all customers with a comprehensive 24-hour technical support.

We offer to give advice about purchasing products online and layout.