

OPERATING INSTRUCTIONS

FM-2ST FM MODULATOR

FM-2 is a frequency agile FM stereo modulator for FM broadcast band.

INSTALLATION

FM-2 must be installed in a dry and locked room.

The modulator can be installed on the wall by using fixing holes.

The dimension are shown in figure 1.

Sufficient air current must pass around the unit.

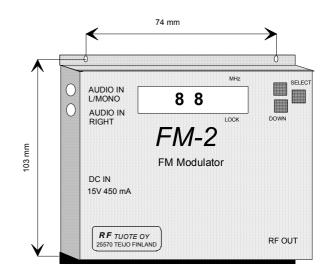


Figure 1.

Audio signal is connected to AUDIO IN L/MONO and AUDIO IN RIGHT connectors (RCA-female).

RF OUT is connected to network via tap or combiner.

The modulator is supplied with the power supply, which is connected to ${\bf DC\ IN}$ connector. ${\bf LOCK}$ led is showing the power is connected.

PROGRAMMING

FM-2 is programmed with the push buttons **UP**, **DOWN** and **SELECT**. In the Table 1. are the functions, which can be programmed.

PARAMETER	DISPLAY	EXPLAIN
Output frequency	88108	FM-2 output frequency with 100 kHz steps
Deviation	AL -6+6	Volume
Audio mode	STER	Stereo
	mono	Mono
Output level	L 020	Attenuator 020 dB

Table 1.

Press **UP**, **DOWN** and **SELECT** push buttons down. At first release **UP** and **DOWN push buttons**. Then release **SELECT** push-button. Reading on the display is the output frequency.

The frequency can be changed by push buttons **UP** and **DOWN**. The output frequency is digits on the display. After selecting the output frequency wait about 4 seconds until the **LOCK** led lights up and the frequency is stored.

Press SELECT push button (within 15 seconds after LOCK led has lighted up) to adjust output level.

Select the required value by UP and DOWN push buttons. The selected value is stored when LOCK led is lighted up.

SPECIFICATION

RF

Modulation FM max. ± 75 kHz

Stereo CCIR Pilot tone

Output frequency 88...108 MHz Tuning steps 100 kHz

Output level 128 dBµV (about 100mW), adjustable -20dB/75ohm

Spurious products ≤ 60dbc
Output impedance 75 ohm

Audio

Nominal input level 0,5 V_{rms} @75kHz dev. Frequency response 40 Hz...15 kHz \pm 0,5 dB

Distortion < 0,5%
Pre-emphasis 50us
Signal to Noise ratio > 40 dB
Input impedance 10 kohm

General

Power max. 15V/450mA Operating temperature -10...+50 °C

Dimensions 110 mm H*130 mm W*40 mm D