



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.

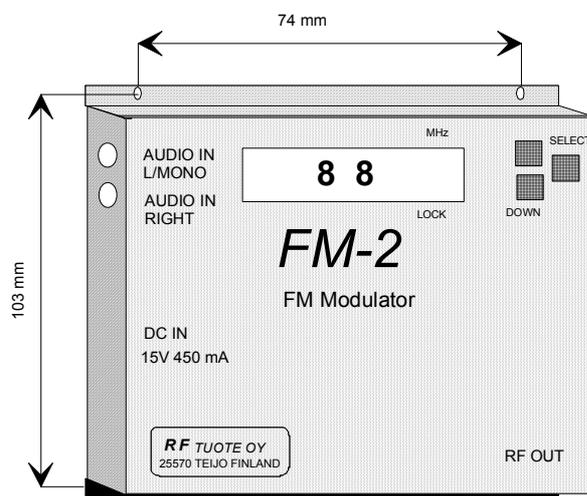


Figure 1.

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 **DC IN** connector. **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	88...108	FM-2 output frequency with 100 kHz steps
Deviation	AL -6...+6	Volume
Audio mode	STER mono	Stereo Mono
Output level	L 0...-20	Attenuator 0...20 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 dB μ V (about 100mW), adjustable -20dB/75ohm
Spurious products	≤ 60 dbc
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